Konica

IMAGEFIT 3 FOR RX-3

Application software

INSTRUCTION MANUAL

(FIRST EDITION)

KONICA CORPORATION

Keep this manual carefully because you must read it whenever required.

Notice to Users Before Reading This Manual

Thank you for buying IMAGEFIT 3 For RX-3. IMAGEFIT 3 For RX-3 is application software that reads photo film image data from Konica Film Scanner RX-3, converts the data to digital format, and saves/prints the data. Please read this manual carefully before using the software.

Notice:

- Making copies or reprinting all or a part of this manual is prohibited without permission.
- Manual descriptions, software specifications, and models of peripheral devices are subject to modification without notice.
- Konica shall have no liability for any troubles caused by connected devices or software applications that are not specified by Konica.

CAUTION:

WHEN USING THIS SYSTEM, PLEASE TAKE NOTE OF THE FOLLOWING: THE POSSESSION OF REPRODUCTIONS OF MONEY, SECURITIES, POSTAGE STAMPS ETC. MAY BE A VIOLATION PUNISHABLE BY LAW. IT IS PROHIBITED TO REPRODUCE COPYRIGHTED BOOKS, PICTURES, IMAGES OR OTHER MATERIALS WITHOUT PERMISSION OF THE OWNER OF THE COPYRIGHT.
PLEASE CHECK YOUR COUNTRY'S LAW

- Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation of the U.S.A and other countries.
- Adobe, Photoshop, Acrobat Reader are registered names or trademarks of Adobe Systems, Inc.
- Other product and company names mentioned in the manual are registered names or trademarks of the company.

Precautions on installing and using this system

Read this manual carefully before using this system.
Before operating this system, make sure you understand and observe the following important precautions.

1. This equipment is application software has functions of scanning image manuscripts such as photograph, etc., converting the images into digital data, and storing/printing the images. Do not use for any other purposes.
   - By installing Adobe Acrobat Reader, you can read further information in the Konica Application Software IMAGEFIT 3 FOR RX-3 Instruction Manual. Display the operating manual by clicking "Start", then "Program", "Konica IMAGEFIT 3", and then "MANUAL_RX-3_E".
2. To maintain safe and optimum functionality, operate this system properly following this instruction manual.
3. Keep individual manuals near the system, and always observe all precautions and follow all instructions.
4. Operate this system under an ambient temperature of 5°C - 35°C and relative humidity of 20% - 80%.
5. In the case of continuous use for long hours, take a rest for around 10 minutes by one hour to give your eyes a rest.
6. Use the monitor at the distance of 80 cm from your eyes in a bright room. Avoid using the monitor at the place too bright by sun light of the reflection.
7. This product (CD) is not a music CD. DO NOT play the CD on a music CD player.

Should any trouble occur
① **Turn off the power switch on the system**
⬇
② **Contact Konica**

Precautions on Disposing This System and / or the Packing Materials

Precautions on disposing This System

When disposing of this equipment consult federal state and/or local regulations for the proper disposal method.

- Regarding the method of disposal, be sure to observe the applicable laws and regulations of your country or state.
- When disposing of the equipment, be sure to treat it as follows before delivering it to the waste collector.

Precautions on Disposing Packing Materials

- Regarding the method of packaging materials disposal, be sure to observe the applicable laws and regulations of your country or state.
- Since resin package materials are equivalent to industrial wastes, be sure to deliver them to authorized collectors of industrial wastes.

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1. Introduction

Please read the following precautions before using IMAGEFIT 3.

(1) This application is provided for the purpose of incorporating images in purchasing the Konica Quick Print Scanner, Konica Film Scanner RX-3. You should not use it for the purpose other than the above.

(2) Do not move or delete the files and folders that have been created by installation and the Windows system files as it will hinder normal operation.

(3) Always follow the normal procedure when quitting the application as illegal shutdown may damage the application or its data.

(4) Temporary disable any resident virus check software when installing this application software.

(5) This application software and user's manual are supplied to license owners. Application software, specifications of peripheral device models and the content found in the user's manual may change without prior notice.

(6) Konica Corp. has no responsibility for any trouble that occurs where this equipment is connected to a device other than that designated by Konica or software other than that designated by Konica is used.

1.1 Operating Environment

Operation of this application has been confirmed under the following system environment. Please note that it may not operate when used under different environment.

<Operating environment>

Operating system	Windows 95 (OSR2.1 or above) *1 Windows 98 second edition Windows NT 4.0 (SP6 or above) *2 Windows 2000 (SP2 or above) Windows XP Professional (Not confirmed in the Home Edition)
CPU	CPU of 300MHz or higher is recommended Intel Pentium/Celeron family, AND K6/Athlon/Duron family or other compatible CPUs
Memory	RAM of 128MB or more
Hard disk	Free area of at least 100MB During basic operation: minimum of 5GB is recommended *3
Hard disk	Made by Adaptec AHA-2940 / 2940U / 2940AU / 2940UW / 2940U2W / 2930U / 2930CU / 29160N
Display	Display adapter of XGA-class (1024 X 768) and above, corresponding to 65536 colors is recommended

*1: In case of using Windows95, use “Internet Explorer4.01 SP2”or above.

*2: Users of NT 4.0 require the ASPI layer of Adaptec. See the homepage of Adaptec for details.

*3: Addition of additional 5GB hard disk is recommended when sufficient hard disk capacity is not available.

1.2 Features of This Application

This application has the following features.

(1) Can fetch image data from photo films at high speed using Konica Film Scanner RX-3.

(2) Can display and manage the image data scanned from quick print scanner “Konica Film Scanner RX-3.”

(3) Equipped with a digital one-channel processing that reduces the differences between films through Konica’s specific color control, and reproduces image data that was fetched with fresh colors (s-RGB) of a high pixel value.

(4) Converts images to various data (JPEG, TIFF, BMP, PICT) format for easy storage.

(5) Can output prints if printer is connected. A separate printer and printer driver is needed.

(6) Can be hooked up with Photoshop if the program is installed.

2. Connection and Software Installation

Install the program as following order.

(1) Prepare and connect the SCSI board.
(2) Set up Konica Film Scanner RX-3.
(3) Install IMAGEFIT 3 for RX-3.

2.1 Preparation

Konica Film Scanner RX-3 receives images by using SCSI. The following items need to be prepared separately at the time of installing this application. For SCSI board, refer to “1.1 Operating Environment” and prepare a board that has been checked for operation.

• SCSI board
• SCSI board driver
• SCSI cable

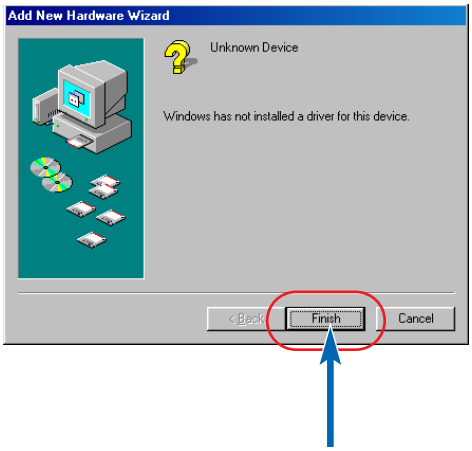
2.2 Connection of SCSI equipment

Connect the SCSI board to your computer and make it operable before connecting Konica Film Scanner RX-3.

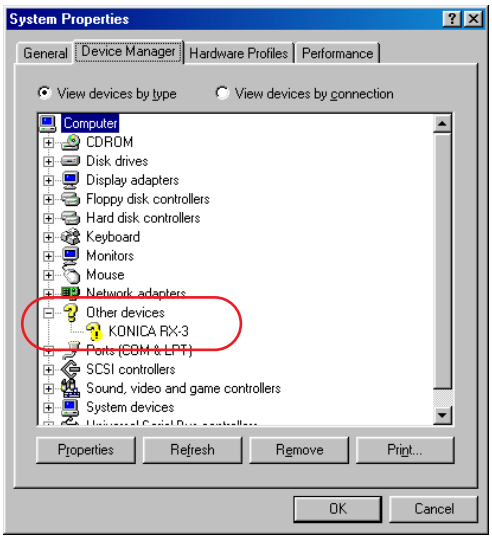
* Follow the manual provided by the manufacture when connecting the SCSI board.

2.3 Installation of Konica Film Scanner RX-3

(1) Connect Konica Film Scanner RX-3 according to the description in the "Connection” chapter (P.10 to 12) of the “Konica Film Scanner RX-3” instruction manual.
(2) Once the installation is complete, turn on the power for Konica Film Scanner RX-3 prior to turning on the power for PC. “Add New Hardware Wizard” will appear after starting Windows. Continue clicking “Next” to the end. (“Complete” will appear at the end.)



(3) When Windows screen is displayed, open “Start” → “Setup” → “Control Panel” and open “System Properties”, Check the following screen in “Device Manager” tab. “KONICA RX-3” should appear under “? Other Devices.”



2.4 Installation of IMAGEFIT 3

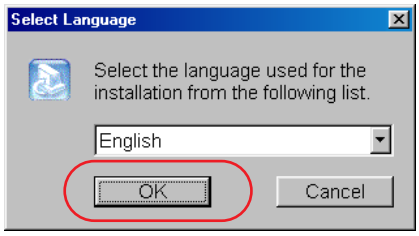
Install this application in the order of following.
* Note that the installation method varies slightly according to the version of the Windows operating system.

"Precautions"

- Approximately 100MB of empty hard disk space is required for installation. Secure at least 100MB of empty space on your hard drive prior to installing the application.
- Exit from all other programs.

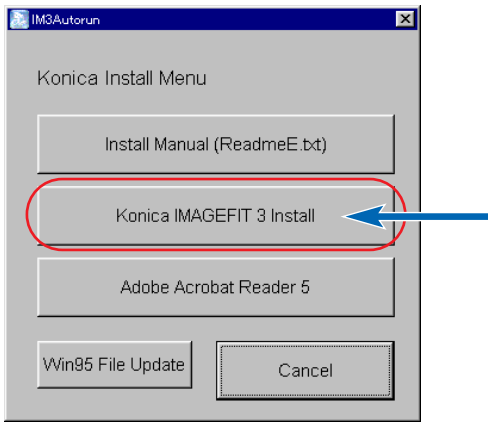
(1) Set the CD for IMAGEFIT 3.

(2) "Select Language" screen will appear automatically after the setup. Check that "English" has been selected and click the "OK" button.

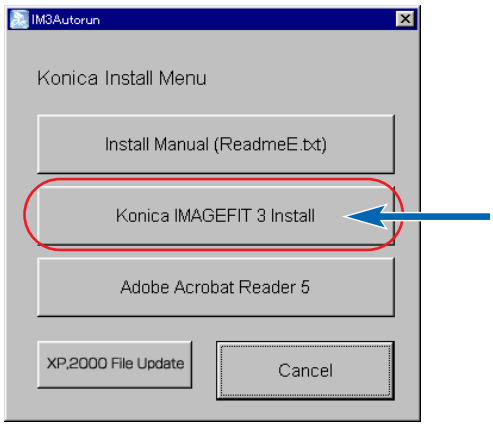


(3) The following window is displayed. When the "Install Konica IMAGEFIT 3" button is clicked on, the installer starts. Note that the window that is displayed varies according to the OS.

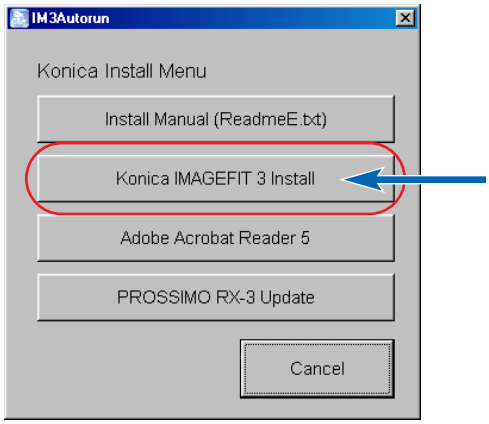
"Window of Windows 95"



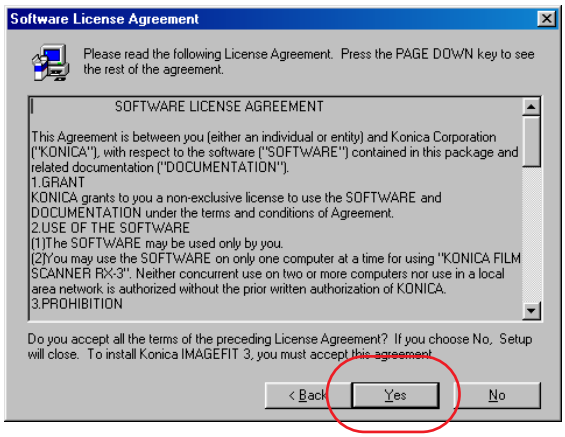
"Window of Windows 2000/XP"



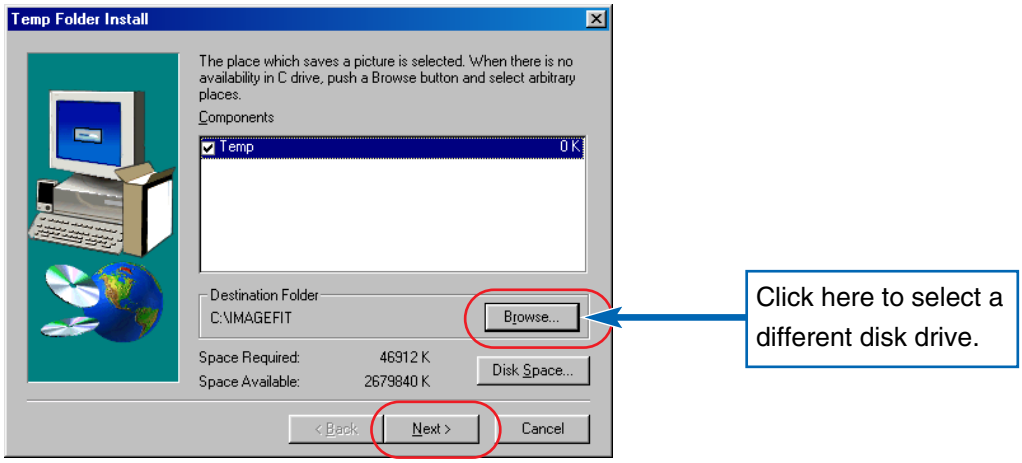
"Window of Windows 98/NT"



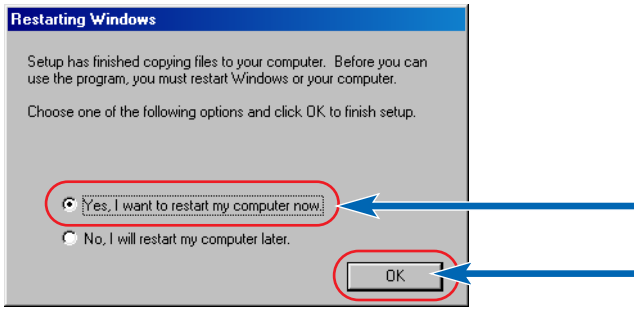
(4) Installer will start and display the following screen. Check “Agree” and click “Yes.”


Software License Agreement
Please read the following License Agreement. Press the PAGE DOWN key to see the rest of the agreement.
SOFTWARE LICENSE AGREEMENT
This Agreement is between you (either an individual or entity) and Konica Corporation ("KONICA"), with respect to the software ("SOFTWARE") contained in this package and related documentation ("DOCUMENTATION").
1.GRANT
KONICA grants to you a non-exclusive license to use the SOFTWARE and DOCUMENTATION under the terms and conditions of Agreement.
2.USE OF THE SOFTWARE
(1)The SOFTWARE may be used only by you.
(2)You may use the SOFTWARE on only one computer at a time for using "KONICA FILM SCANNER RX-3". Neither concurrent use on two or more computers nor use in a local area network is authorized without the prior written authorization of KONICA.
3.PROHIBITION
Do you accept all the terms of the preceding License Agreement? If you choose No, Setup will close. To install Konica IMAGEFIT 3, you must accept this agreement.
< Back
Yes
No

(5) Designate the location for storing the image (a folder named “TEMP” in the screen). It is usually all right to use the C Drive. However, other drives can be used when sufficient disk space is not available on the C Drive. Click the “Browse...” button and select the desired location in such case. When [Next] is clicked on, installation starts.

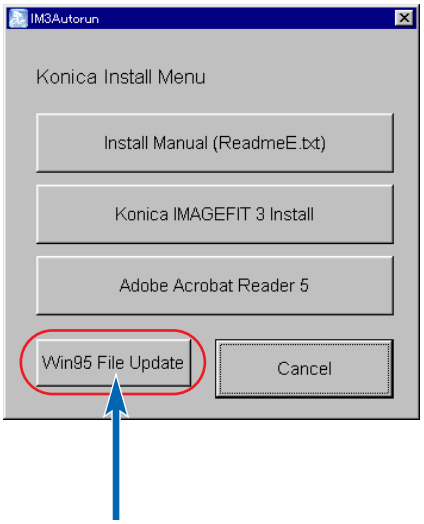


(6) Finally, restart the computer by clicking on “Yes, restart computer immediately”.
If you are using Windows 98, installation has been completed. If not, proceed with (7).


Restarting Windows
Setup has finished copying files to your computer. Before you can use the program, you must restart Windows or your computer.
Choose one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

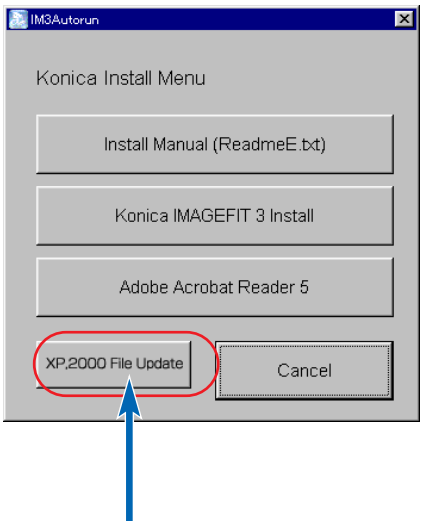
(7) After restarting the personal computer, remove the CD once, and reset it. The following menu window is displayed. If you are using Windows 95, proceed with (8). If you are using Windows 2000/XP, proceed with (9). If youare using Windows NT, proceed with (10).

(8) Updating Windows 95 files
If you are using Windows 95, the [Update Windows 95 file] button is displayed as shown below. After checkingthat the browser is the Internet Explorer 4.0 SP1 or higher, update the files by clicking on [Update Win95 file]. The installer is started and the file is updated.



"Note"
If files are not updated, the program may not run smoothly.

(9) Updating Windows 2000/XP files
If you are using Windows 2000/XP, the [Update XP,200 file] button is displayed. Update the file by clicking on the button.



"Note"
The scanner cannot be recognized unless the file is updated.

(10) If you are using Windows NT, you must install the ASPI layer of Adaptec. See the homepage of Adaptec for details.

2.5 A Variety of Settings

These settings are different by customer"s environment. IMAGEFIT 3 should be set for the environment.

2.5.1 Setting on Display

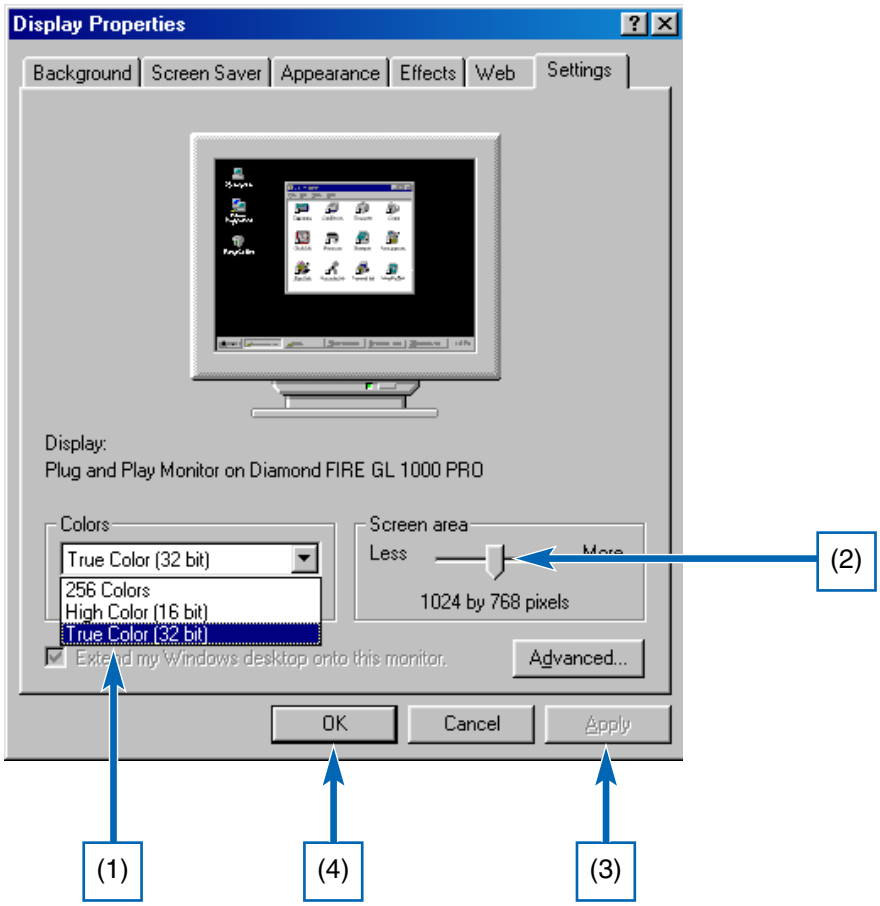
Display of this application requires the use of a display adapter with a resolution above XGA (1024 x 768 pixlels and over).
The display is set as shown below, as needed.
Use of “True color” colors expression is recommended.

(1) Select “Start” - “Setting” - “Control Panel” and double-click “Screen”. Select “Settings” and then select "True Color “32 bit”" in “Colors” section. Although the system operates normally also in "High Color “16 bit”," this mode may fail to display gradation correctly.

(2) Set the scroll bar of “Screen area” to “1024 by 768 pixels.”

(3) Click “Apply” button to apply the settings.

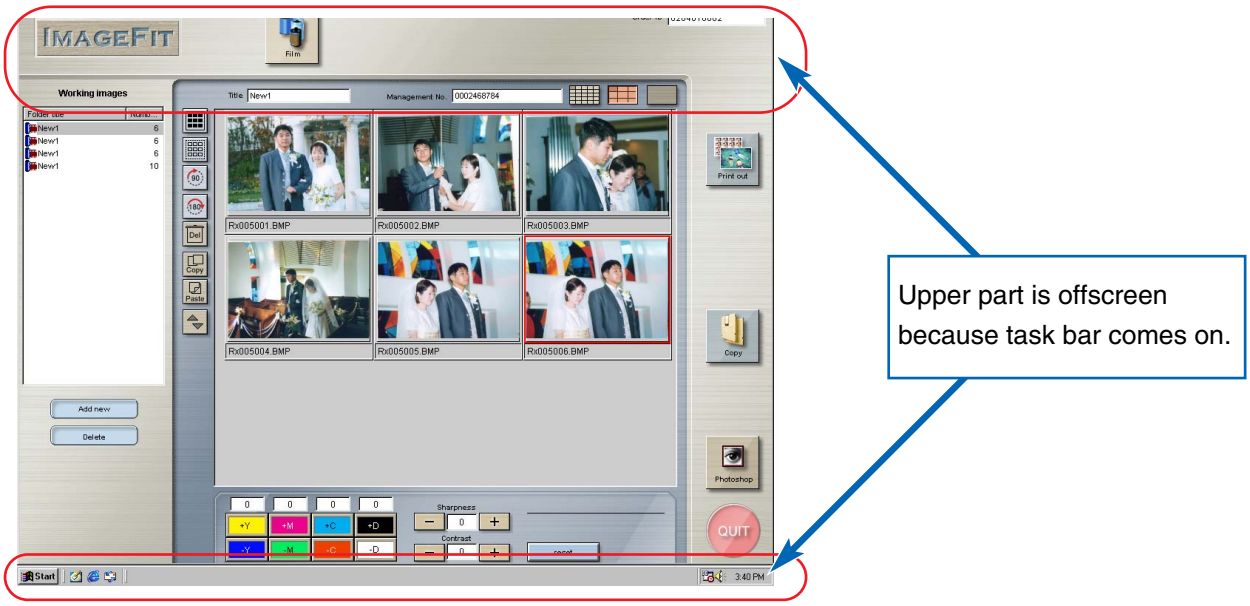
(4) Click “OK” button.



2.5.2 Change Task Bar Display

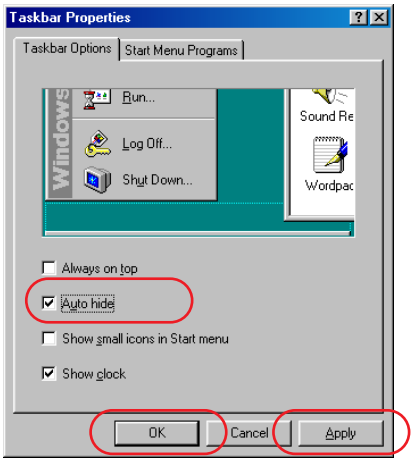
Because an upper part of this application falls offscreen on 1024-by-768 display, setting of task bar display requires a change. Change the setting by the following steps:

* If this application is running, exit the application by clicking “QUIT” button.



(1) Right-click on gray potion of the task bar, and then select “Property.”

(2) A screen shown below appears. Remove the check on “Always on top,” and make check on “Auto hide,” as shown in the figure below.



(3) Click “Apply” button and then click “OK” button.

2.6 Uninstallation

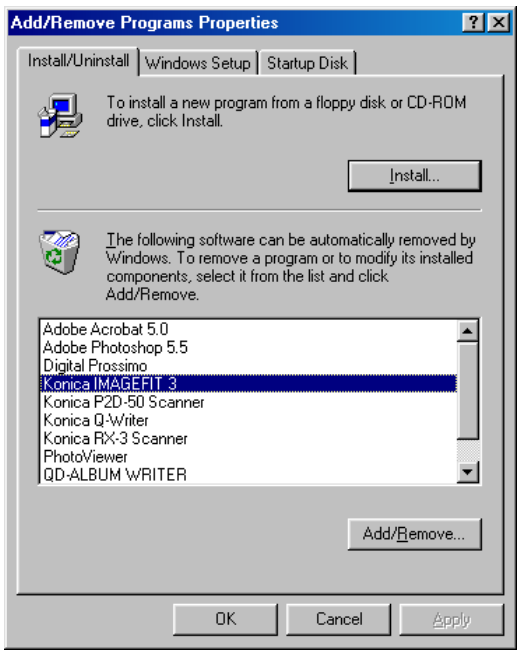
Follow the procedure below to uninstall this application.

* The screens shown below have been prepared using Windows 98 and may differ slightly in other OS.

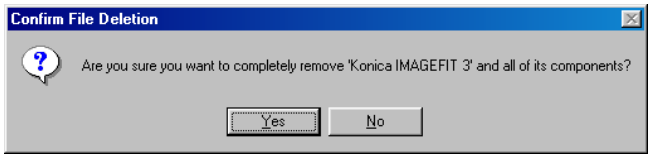
(1) Double-clicking “My Computer” on the desktop screen.

(2) Double-click “Control Panel” and double-click “Addition and Deletion of Application.”

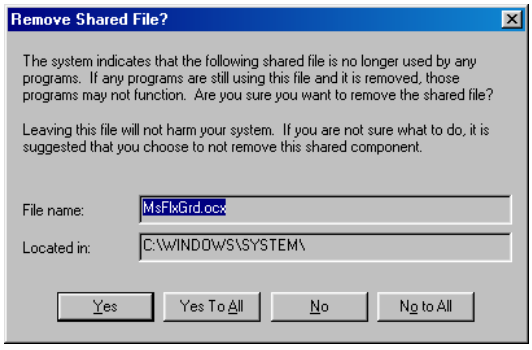
(3) Click “IMAGEFIT 3” as shown below and clock the “Add/Delete” button.



(4) The following screen will appear. Click “Yes.” Click “Yes” again in the next screen.

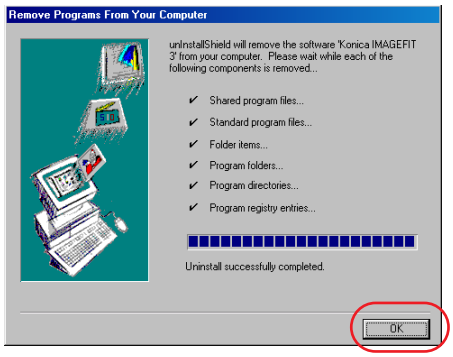


(5) When prompted for deletion of shared files as shown below, click “No to all.”


Remove Shared File?
The system indicates that the following shared file is no longer used by any programs. If any programs are still using this file and it is removed, those programs may not function. Are you sure you want to remove the shared file?
Leaving this file will not harm your system. If you are not sure what to do, it is suggested that you choose to not remove this shared component.
File name:
MsFlxGrd.ocx
Located in:
C:\WINDOWS\SYSTEM\
Yes
Yes To All
No
No to All

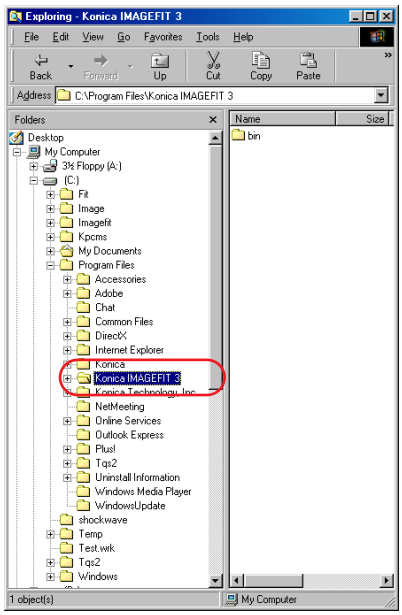
“Warning”
Note that selecting “Yes” or “Yes to All” may have an effect on other applications.

(6) The following screen will appear when the process is completed normally. Click “OK” to move to the next step.


Remove Programs From Your Computer
uninstallShield will remove the software 'Konica IMAGEFIT 3' from your computer. Please wait while each of the following components is removed...
Shared program files...
Standard program files...
Folder items...
Program folders...
Program directories...
Program registry entries...
Uninstall successfully completed.
OK

(7) Then select “Explorer” from “Program” → “Start”. Delete two file folders. The first folder is “IMAGEFIT” folder in C Drive. Right-click the folder and select “Delete.” Select “Yes” to all messages that may appear in the process.

The other folder is “Konica IMAGEFIT 3” in “Program Files” of C Drive. Right-click on the folder and select “Delete”.

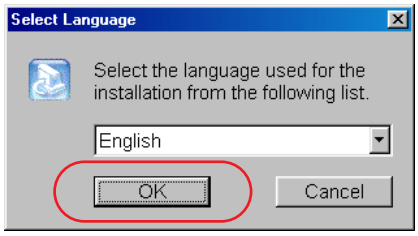


(8) Restart the computer after deleting the above two folders to complete the uninstallation.

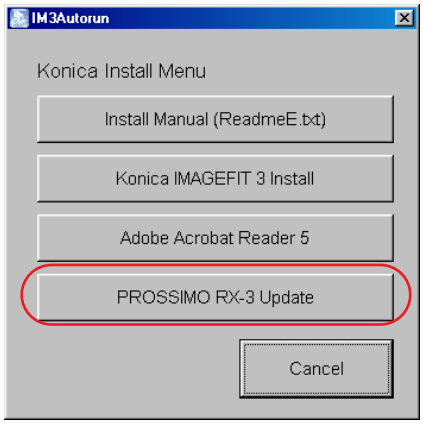
2.7 Using RX-3 in DIGITAL PROSSIMO

Users of DIGITAL PROSSIMO cannot be use RX-3 even if it is connected. RX-3 can be used by applying the following method:

(1) Set the "IMAGEFIT 3" CD.
(2) When the CD is set, the "language" window is displayed automatically, check that "English" is selected, and click on the “OK” button.



(3) When DIGITAL PROSSIMO is installed, the “PROSSIMO RX-3 Update” button is displayed. Click on “PROSSIMO RX-3 Update ”.



(4) When the following message is displayed, click on the “OK” button.

(5) Updating is completed.

For the new functions after updating of PROSSIMO, see the (RX3_E.pdf) file containing the manual that is created on the desktop.

3. Method of Startup and Quit

3.1 Preparation

(1) Turn on the connected peripheral equipment, such as printers, scanners.
(2) Then, turn on the PC.

3.2 Starting IMAGEFIT 3

Double click an icon

on the desktop screen of the PC. Then IMAGEFIT 3 starts.

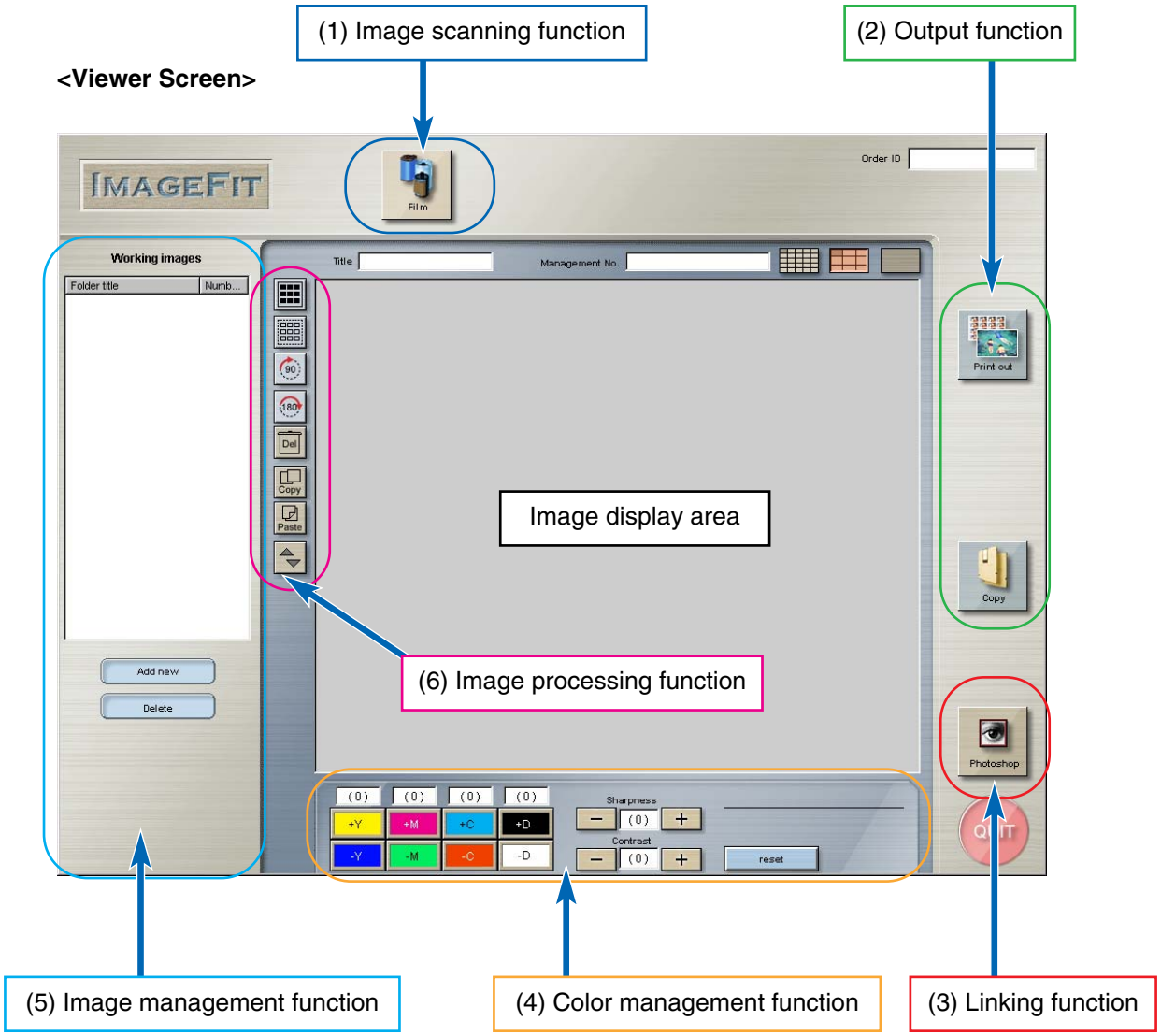
3.3 Quitting IMAGEFIT 3

Press the “QUIT” button on the Viewer Screen (main screen) of IMAGEFIT 3.
We recommend turning off the PC’s power in the following manner after quitting IMAGEFIT 3 if your computer will keep unused for a long period of time.

(1) Quit IMAGEFIT 3 (Press the “QUIT” button.)
(2) Quit the PC and turn off the PC’s power.
(3) Turn off the power of peripheral equipments (such as printers and scanners).

4. Description of Function

This section describes the function and operation of this application. The display shown below is a viewer screen (or main screen). The operation is all started on this display. The functions of buttons are as follow:



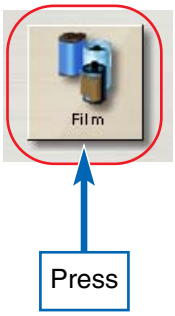
(1) Image scanning function ·····Can fetch images from photo films. When an ACCELUCK scanner is connected, a button called “From Print” is also displayed.
(2) Output function·····Can save images in individual media.
(3) Linking function ·····Can link with Photoshop if Photoshop is installed.
(4) Color management function ·····Can perform color correction, density correction, and sharpness and contrast adjustments on the screen.
(5) Image management function·····scanned images can be managed as folders. Images that had been scanned previously are also memorized.
(6) Image processing function ·····Performs select all, unselect all, rotate, copy and paste of selected images.

5. Fetching Images

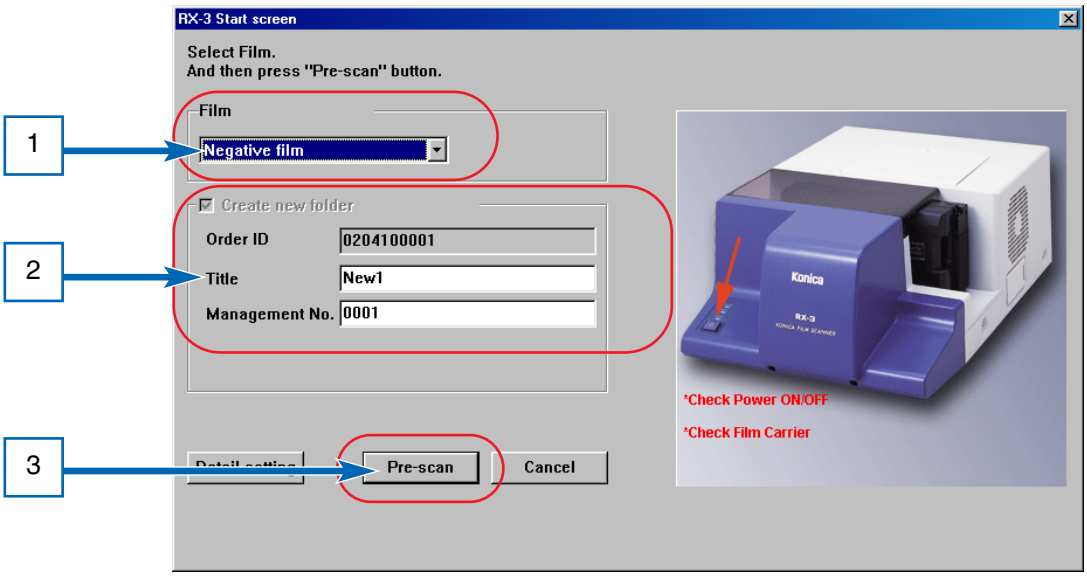
This application can fetch images from films using film scanner RX-3. The operation method is described below. Please note that RX-I cannot be used.

5.1 Basic Fetching Method

(1) Prepare a required film and check that the power is turned on for RX-3. If not, turn on the power for RX-3, end the application once, and restart the personal computer.
(2) Set a film carrier (for 135mm/APS/mounting).
(3) Press the “From Film” button.



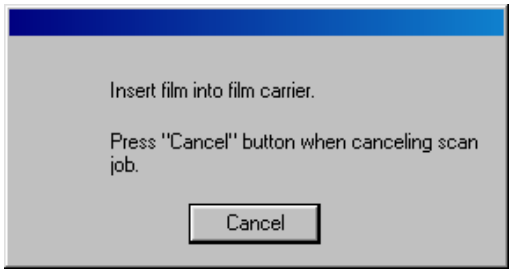
(4) The following window is displayed.



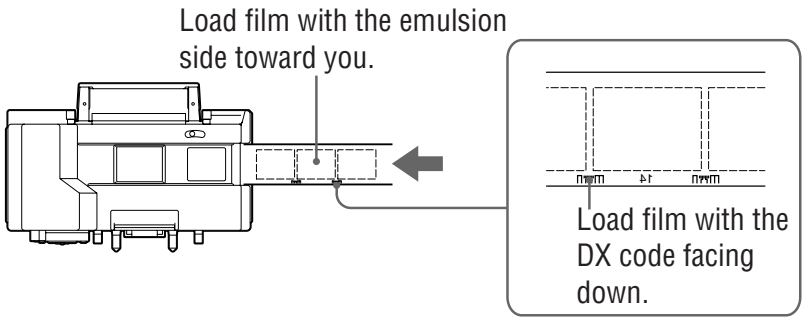
1. Initially, select a file type (negative film/reversal film/monochrome).
2. Enter “Title” and “Control Number”. Any title and control number can be entered. If no title and control number are entered, they are created automatically. To enter an image in the current folder, remove the check of “Create New Folder”.
3. After completing the preparation, press the “Pre-scan” button.

Advanced settings are described from page 23.

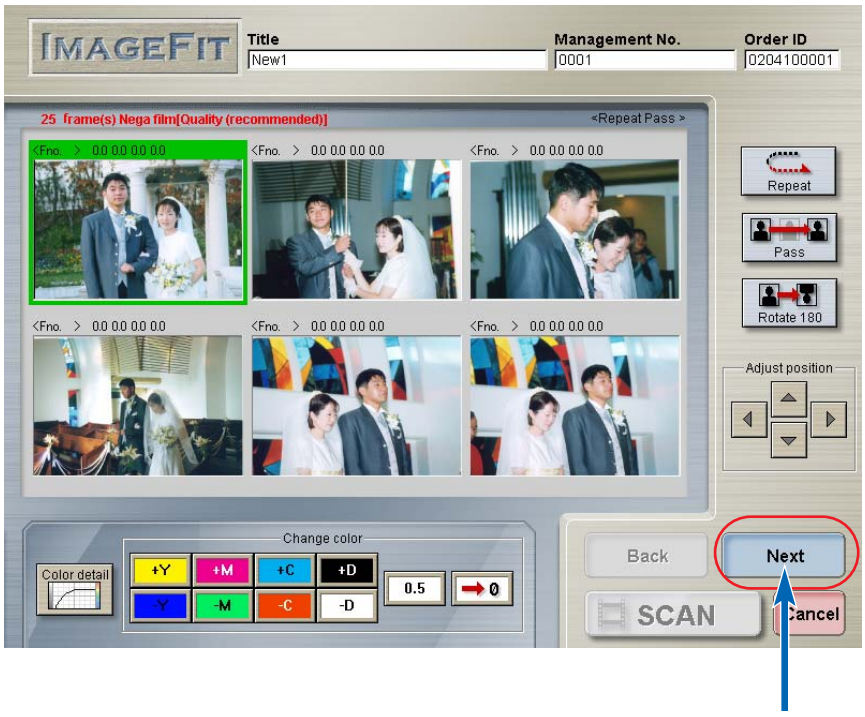
(5) The following window is displayed. Check the film direction and insert a film in the carrier. The film is inserted and pre-scan starts.



Insert a film facing the emulsion section front and the frame numbers become mirror images.



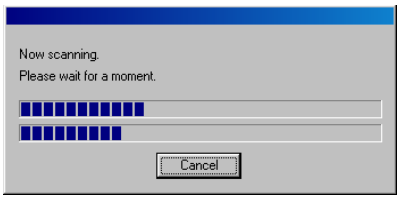
(6) At completion of pre-scan, a 6-frame preview window is displayed as shown below. If no change is necessary for the images, press the “Next” button until the “SCAN” button becomes valid (turns to yellow).

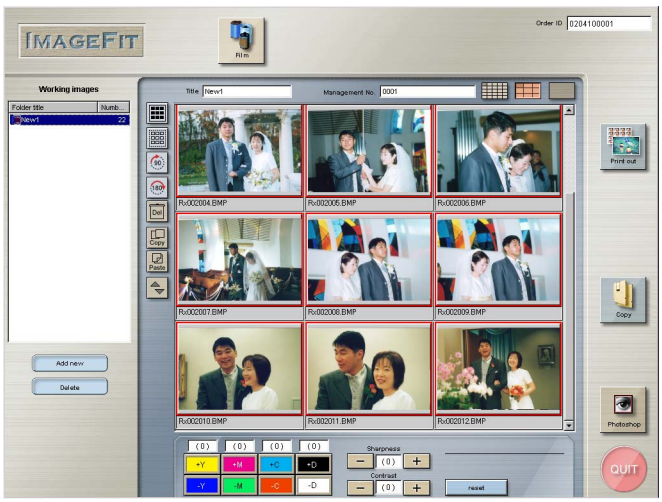


“Technique”
The keyboard can also be used. The “Enter” key can also be used for “SCAN” or “Next”.

(7) At the last frame, the “Scan” button is lit (yellow) as shown below. If there is no problem, click the “SCAN” button. Scanning starts. To return to the previous operation, click the “Return” button. To stop the operation, click on the “Cancel” button.

(8) Scanning starts and the Viewer window is displayed.



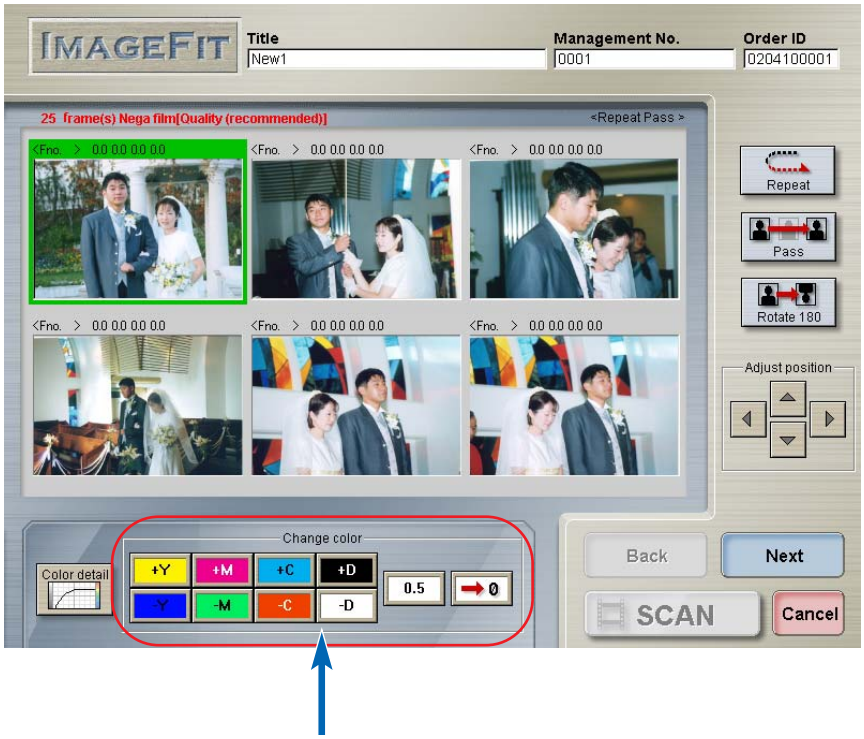


“Caution”
When the [Cancel' button is pressed while images are being displayed, images are cut off.

Scanning is completed.

5.2 Color Balance/Density Balance Correction of Images

On the RX-3 Preview window, color balance and density balance can be adjusted at this stage.
To correct color balance, select an image and make changes using various “Color Change” buttons.



“Explanation of buttons”

Button	Function	Shortcut key
+Y/-Y button	Changes the yellow balance by +-1. (*1)	7 → 7 or 6
+M/-M button	Changes the magenta balance by +-1. (*1)	8 → 4 or 6
+C/-C button	Changes the cyan balance by +-1. (*1)	9 → 4 or 6
+D/-D button	Changes the density +-1. (*1)	4, 6
0.5 button	Changes each button by 0.5. When pressed once, the button is clicked and when pressed again, the button is released.	5
→ button	Sets all the settings to the initial values. (*2)	None

*1: The parameters are set so that the color balance changes by 10% in one operation and the density balance changes by 15% in one operation. To change the balances, see page 21.

*2: The contents that are changed by color control are not reset to the initial values.

“Note”

In RX-3, slight color differences may occur in pre-scan images due to the scanning method.
This does not have any influence on the scanned image.

5.3 Color control Functions

The color control functions enable various adjustments. Select an image and click the “Color Control” button. Make the necessary adjustments and click the “OK” button.

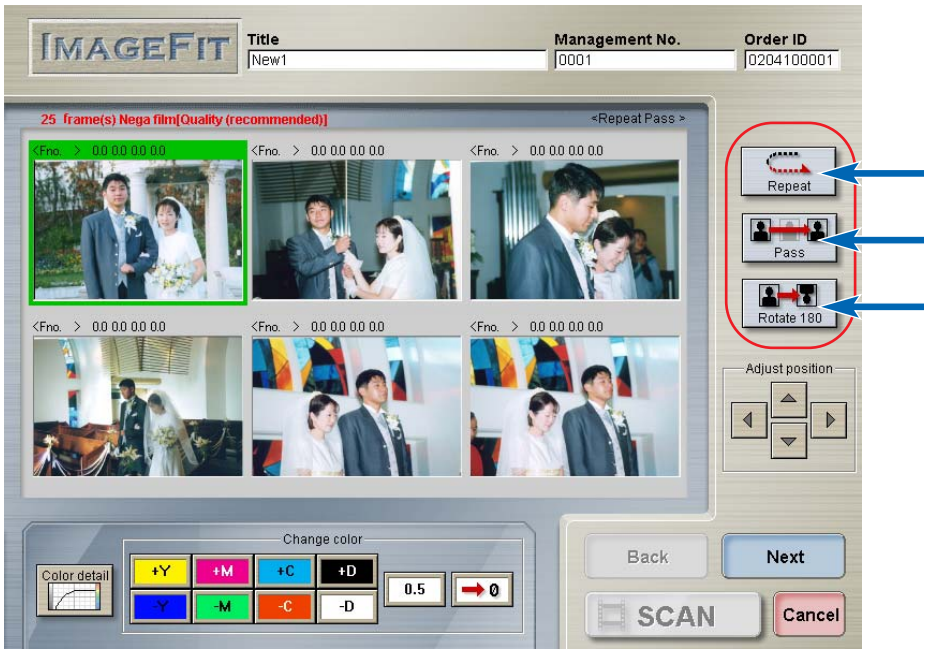
“Color control”

Function name	Contents
Contrast	Adjusts the contrast.
Sharpness	Adjusts the sharpness of the image.
Under-exposure correction	Corrects under-exposure.
Over-exposure correction	Corrects over-exposure.
Backlight correction	Compensates backlight scene.
Soft focus	Adjusts soft focus.
Color intensity	Adjusts color intensity.
Micro-grain fine	Adjusts the graininess of the image.

“Technique”: The functions can be applied to all the frames by combining the “Repeat” button.

5.4 Repeat/Pass/Vertical Inversion

Functions can be repeated, scanning can be bypassed, or scanning can be inverted.



“Explanation of buttons”

Button	Function	Shortcut key
Repeat button	Repeats all the functions on the Preview window. Functions are repeated for all the frames starting from the selected frame.	0→9
Pass button	Bypasses scanning of the selected frame.	0 → 4 Bypasses one frame 0 → 6 Releases the bypassing of one frame. 0 → 1 Bypasses all the subsequent frames. 0 → 3 Releases all the subsequent frames.
Vertical inversion	Vertical inversion of the selected frame.	0→7

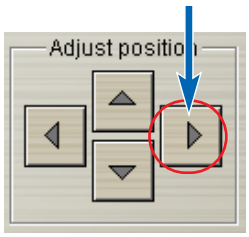
“Technique”

When all the frames are displaced in the same interval, all the displacements can be adjusted by adjusting one frame and pressing “Repeat”.

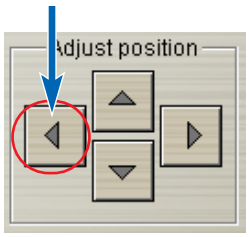
5.5 Adjusting Frame Displacement/Eclipse

If the film is under-exposure or there are some blank frames, frame displacement may occur.
Vertical eclipse can also be corrected. In this case, correct as follows.

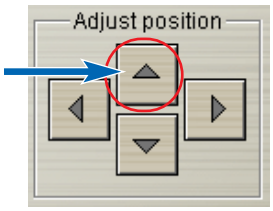
(1) Displaced to the right



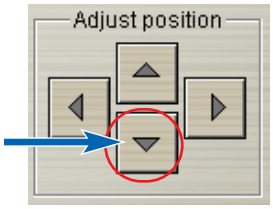
(2) Displaced to the left



(3) Including more upper section



(4) Including more lower section

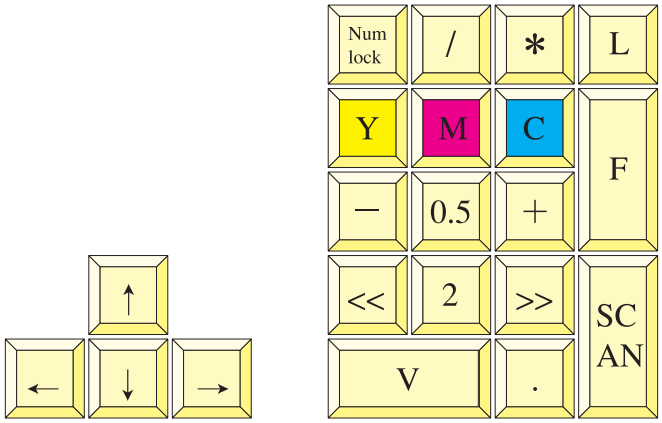


“Technique 1”
When all the frames are displaced in the same interval, all the displacements can be adjusted by adjusting one frame and pressing “Repeat”.
“Technique 2”
Arrow keys (→ ←↑↓) on the keyboard can be used.

“Note”
When the vertical inversion is used, all the above operations are inverted.

5.6 List of Numeric Key Operations

Numeric keys can be used for a 6-frame Preview window.
See the table below for each function.



“Basic keys”

Key	Operation	Function
<< >>	1 or 3	Moves the selected image.
- +	4 or 6	Increase or reduce the density.
0.5	5	Increase or reduce in the unit of 0.5.
Y	7	Locks to Y density.
M	8	Locks to M density.
C	9	Locks to C density.
F	+	Corrects the scenes that were projected by different types of light sources
L	-	Corrects extreme color failure scene.
SCAN	Enter	Sends to SCAN or the next stage.
→←↑↓	→←↑↓	Adjust frame displacement.

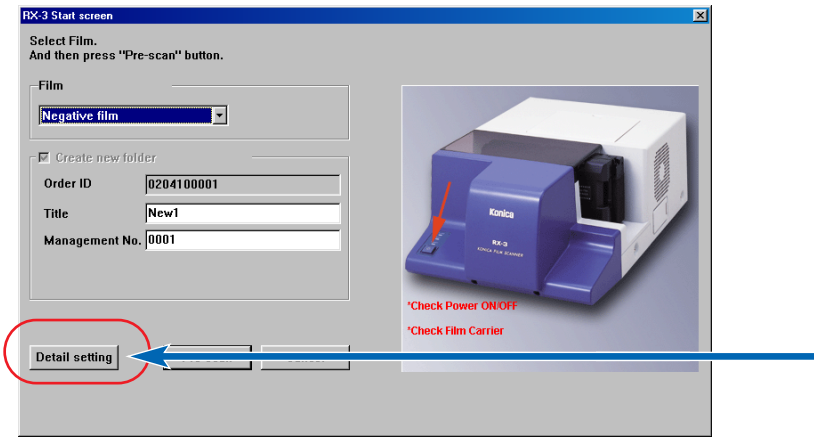
“Combination with the V key”

Key	Operation	Function
V <<	0 → 1	Bypasses all the frames.
V >>	0 → 3	Releases bypassing of all the frames.
V +	0 → 6	Bypasses a selected frame.
V -	0 → 4	Releases bypassing of a selected frame.
V Y	0 → 7	Inverts a selected frame vertically.
V C	0 → 9	Repeats operation.
V SCAN	0 → Enter	Cancel

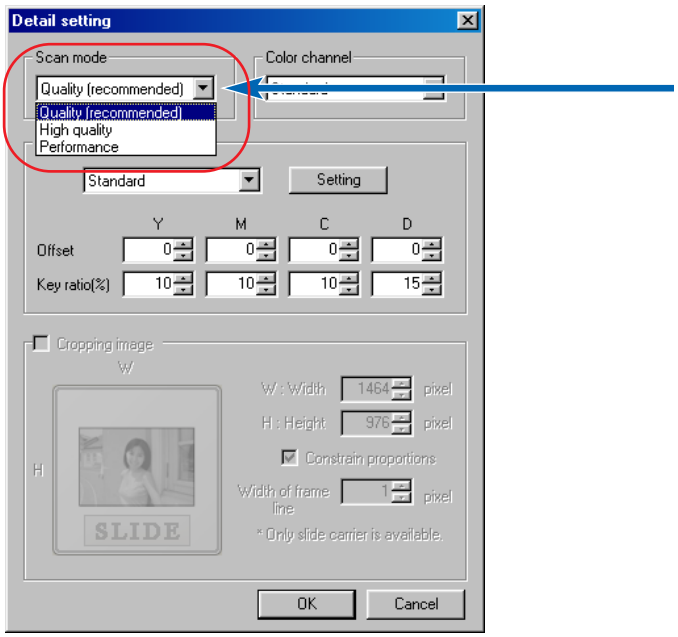
5.7 Changing Scan Mode Setting

Conditions for fetching images with the film scanner can be changed.

(1) When the “From Film” button on the Viewer window is clicked, the following window is displayed. Ckick the “Advanced Setting” button.



(2) The following Setting window is displayed. Selection can be changed on this window.

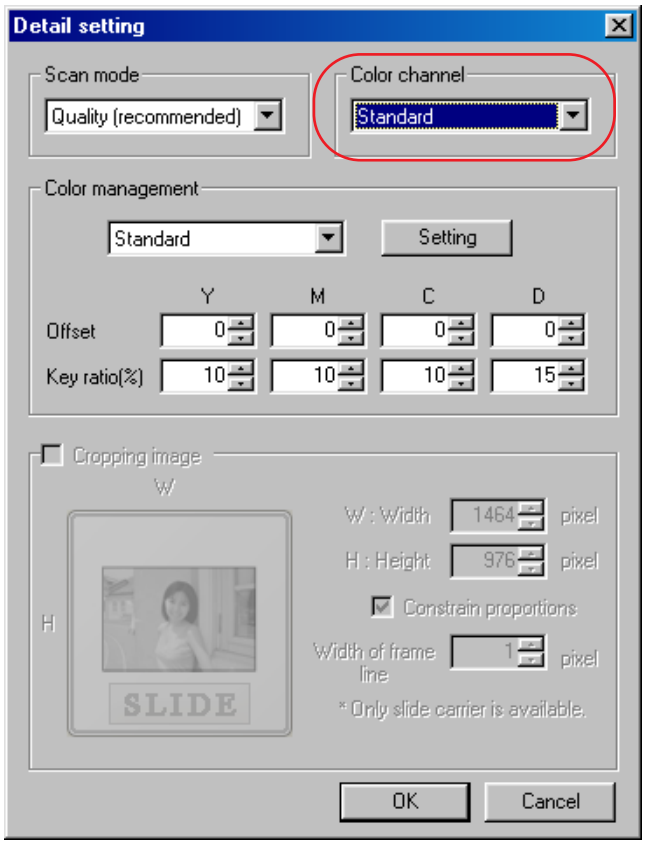


The following three scan modes are available.

Mode	Description	Image size		Fetching time (24 frames)
High quality	Recommended mode. This is a default mode.	135mm APS	1536 x 1024 1824 x 1024	3 minutes 00 seconds 5 minutes 30 seconds
Highest quality	In this mode, priority is given to picture quality. Since the image is large, a long time is required for scanning.	135mm APS	3072 x 2048 3648 x 2048	8 minutes 45 seconds 15 minutes 15 seconds
Speed Priority	Priority is given to speed over picture quality. Although the processing speed is high, the image quality may deteriorate slightly.	135mm APS	768 x 512 912 x 512	2 minutes 30 seconds 2 minutes 20 seconds

5.8 Setting a Color Channel

This application provides [Standard] only for the color channel setting.

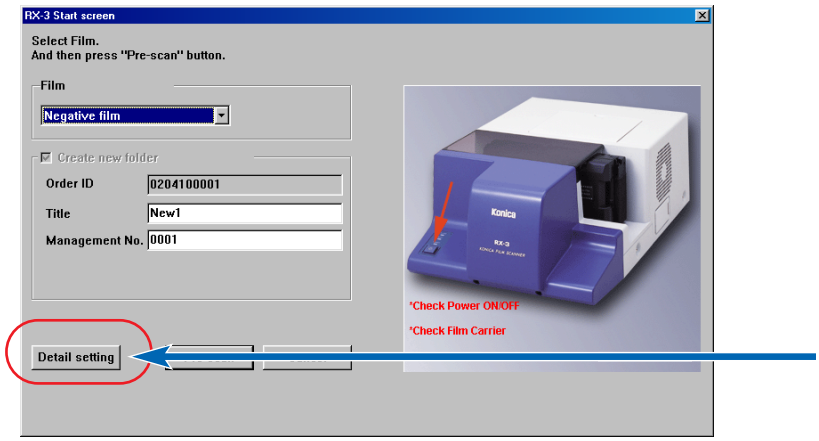


Standard ·····Reproduces standard image quality (close to sRGB) on a display. An optimum result can be achieved by using a sRGB-handling printer at output.

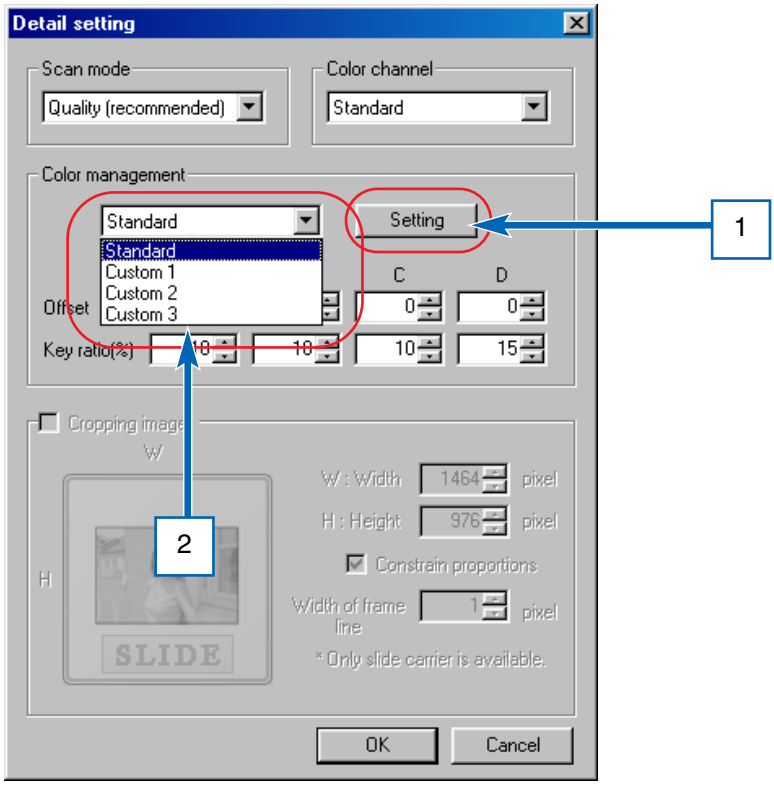
5.9 Registering Optional Color Control

Color control can be registered as required by setting a color control value.
Change the setting as instructed below.

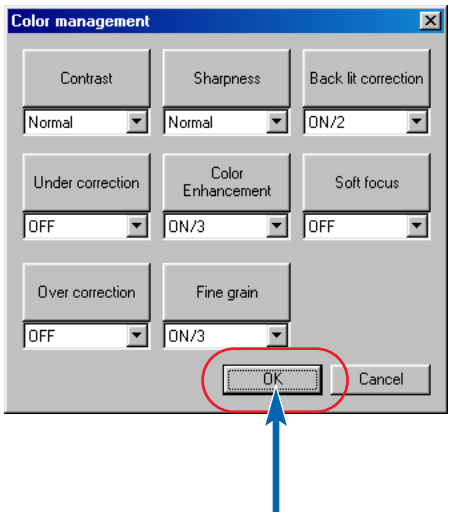
(1) When the “From Film” button on the Viewer window is clicked, the window is displayed.
Click the “Advanced Setting” button.



(2) The following setup window is displayed. Selections can be changed on this window.
Select one of the options Custom 1 to Custom 3 and click the “Detail Setting” button. When “Standard” is selected, “Detail Setting” cannot be changed.



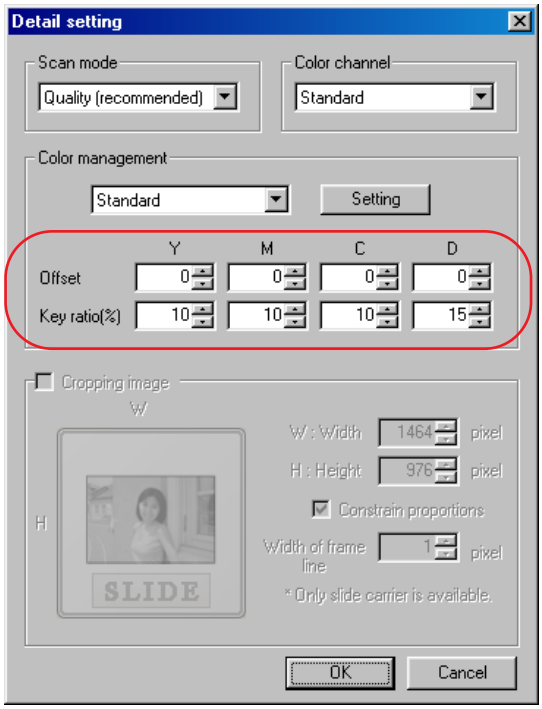
(3) When the following window is displayed, adjust each item as required.
See Page 19 for details of each item.
After completing the adjustments, click the “OK” button. Note that this mode is used to read images from the next time.



5.10 Changing Offset and Change Rate

Offset and a key change rate can be changed as required.
Offset is to shift the hue and density of the entire image that is fetched. A key change rate refers to a ratio of change when the color button or the density button is pressed once.

(1) Click the “From Film” button on the viewer window and click the “Advance Setting” button.
The following window is displayed.



(2) Change the values of “Offset” and “Key Change Rate %” that are enclosed by dotted lines and click the “OK” button if there is no problem. The details are as follows.

“Changing offset”
Normally, value “0” is set. If the value is increased, the entire density of Y, M, C, and D increases. If the value is reduced, the entire density of Y, M, C, D decreases. As the guideline of the value, if the value is increased by “4”, the density increases about 10%. For instances, assume that 4, 0, 0, 0 are entered as the values of Y, M, C, and D. The density of yellow increases about 10%. When -4, 0, 0, 0 are entered, the density of yellow decreases about 10%.

“Change of key change rate”
Normally, a value of 10% is set for color and a value of 15% is set for density. When this value is increased, the density or color balance that changes each time increases. When the value is reduced, the value of change at each time decreases. For instance, if the value of M is changed from 10% to 20%, the amount of change is double the current change amount at each time. If 5% is set, the key needs to be pressed twice to make the same change amount as the current amount.
When reversal is set for the “File Type”, the key change is set to a comparatively low value; the color balance is set to 3% and the density balance is set to 6%.

5.11 Clipping Mounting Images of Reversal Films

In this application, rims may be provided on the edges of an image when an image is fetched using mounting of a reversal film. In this case, the rims of the image can be clipped.

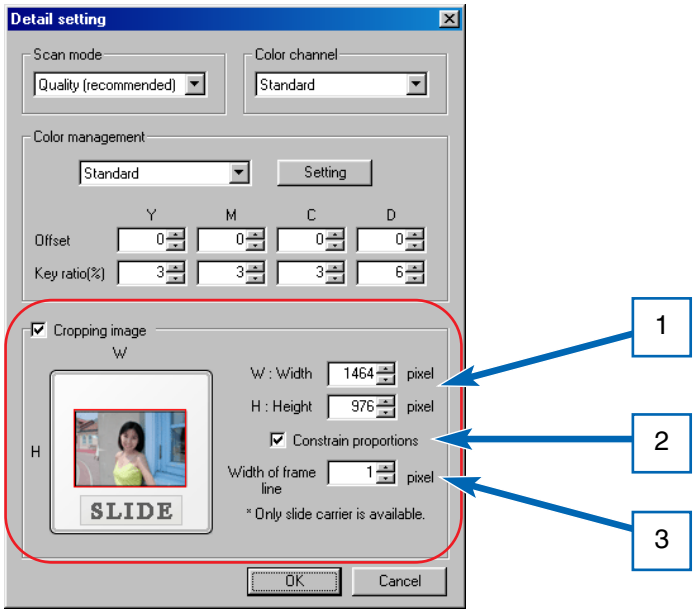
Note: This function is valid only when [Reversal Film] is specified as the film type and a slide carrier is used. When a 135 film carrier and IX240 film carrier is used, this function is not valid even if it is set.

(1) Click on the “From Film” button.

(2) Select “Reversal Film”.

(3) Click on the “Advanced Setting” button.

(4) The following window is displayed. Set a width and a height accordingly.



Each function is described below.

1) Setting a width and a height

Set a width and a height. The following table lists valid heights and widths.

Scan mode	Width (pixel)	Height (pixel)
Scan mode	728 to 768	472 to 512
High quality	1456 to 1536	994 to 1014
Highest quality	2912 to 3062	1888 to 2038

2) Fixing a width to height ratio

Changes a width to height ratio in a fixed rate.

3) Width of display frame

Adjusts the width of image clipping frame width when an image is displayed on a pre-scan window. The frame width can be set in the unit of 1 to 3 pixels.

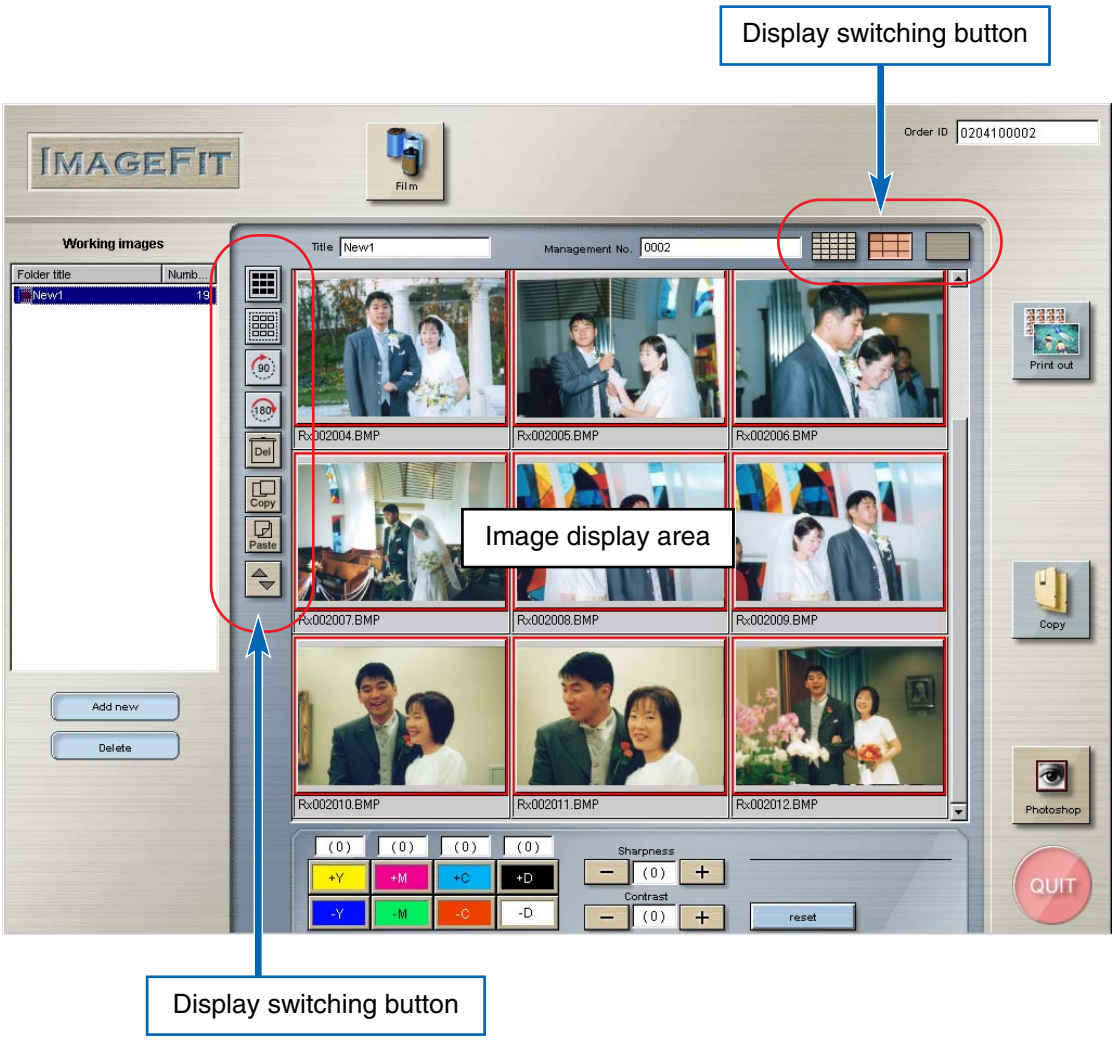
(5) When the setting is completed, start scanning by clicking the “OK” button.

6. Watching Scanned Images

The use of this application can manage and display scanned images by folder. The operations below can be performed on the Viewer Screen.

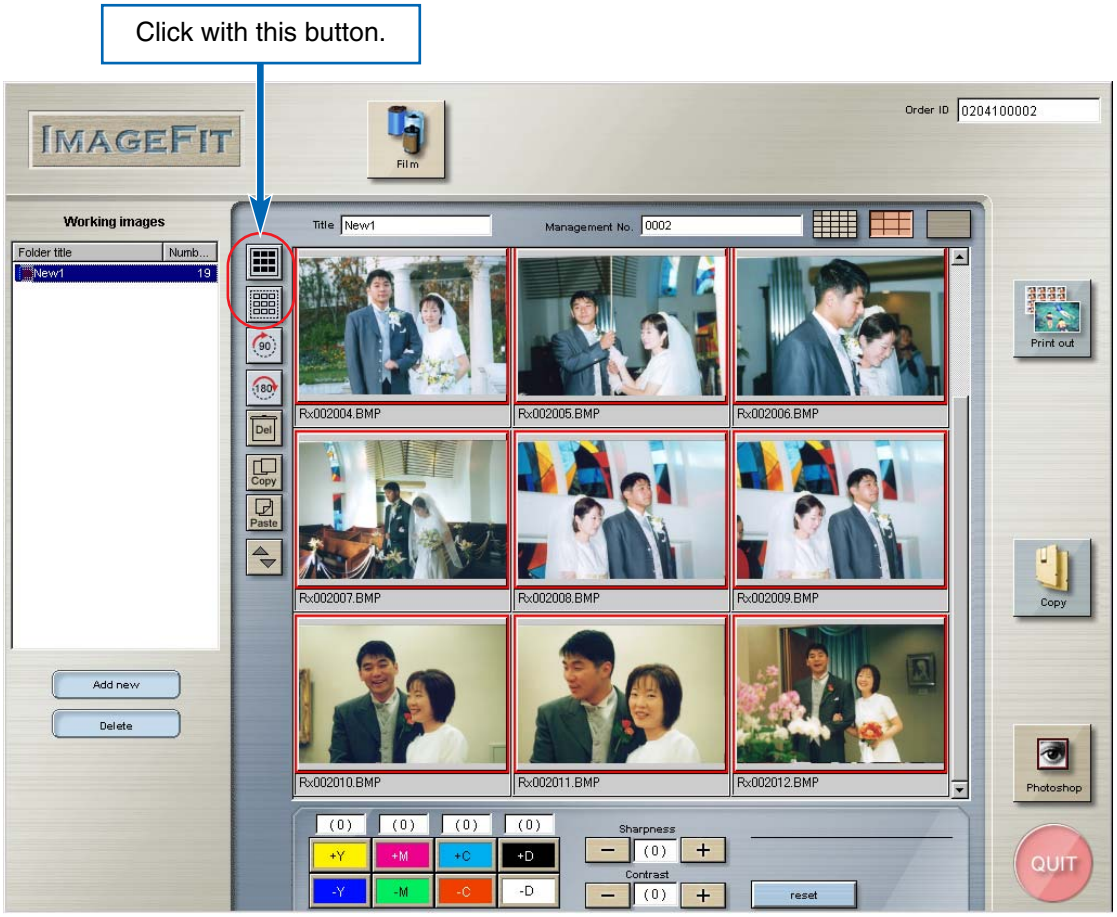
Caution: IMAGEFIT 3 can save up to 400 frames in one folder. But saving of over 100 frames can retard its operation to extreme level. Up to 100 frames should give a measure.

The following operation is possible on the Viewer Screen.



6.1 Selection/nonselection of displayed images

When scanning an image from the input button in Viewer Screen, all images are selected (all displayed with red frames). Click the image with a mouse to change the selection.



Clicking button will result in “Selection all”. Clicking button will result in “Nonselection all”.

To select multiple images, click while pressing the “Shift” key or “Ctrl” key on the keyboard.

“Technique”

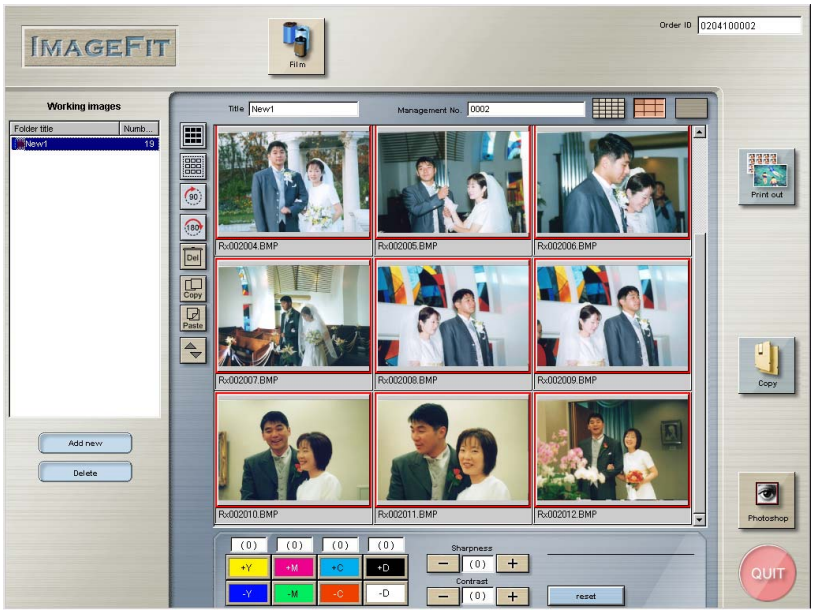
A pull-down menu will appear after moving the pointer and right clicking over the image to “Selection all images” or “Nonselection all images”.

6.2 Switching Image Display

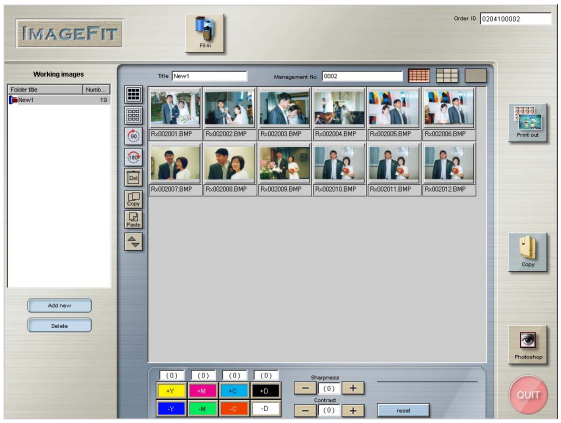
6.2.1 1-frame/9-frame/30-frame display

You can change the number of frames that are displayed. The buttons, from left, are “30-frame display,” “9-frame display,” and “1-frame display.” In the event the number of images to be scanned is greater than the number of images displayed, a scroll bar will be displayed at far right.

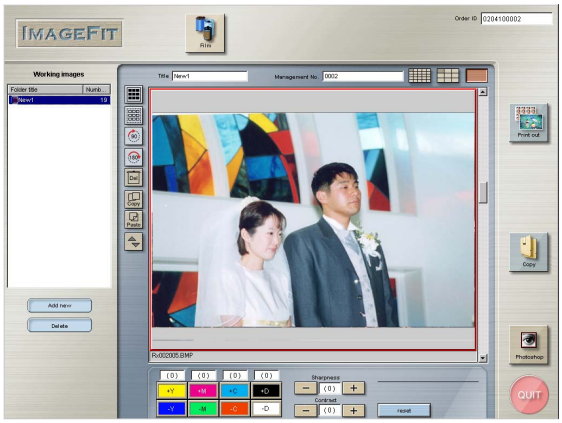
“9-frame display” Displays images in sets of 9-frames.



“30-frame display”
Displays images in sets of 30-frames.



“1-frame display”



“Note”

- Displaying large number of images may take time.
- Do not perform other operation while working on image display.

6.2.2 Real size display

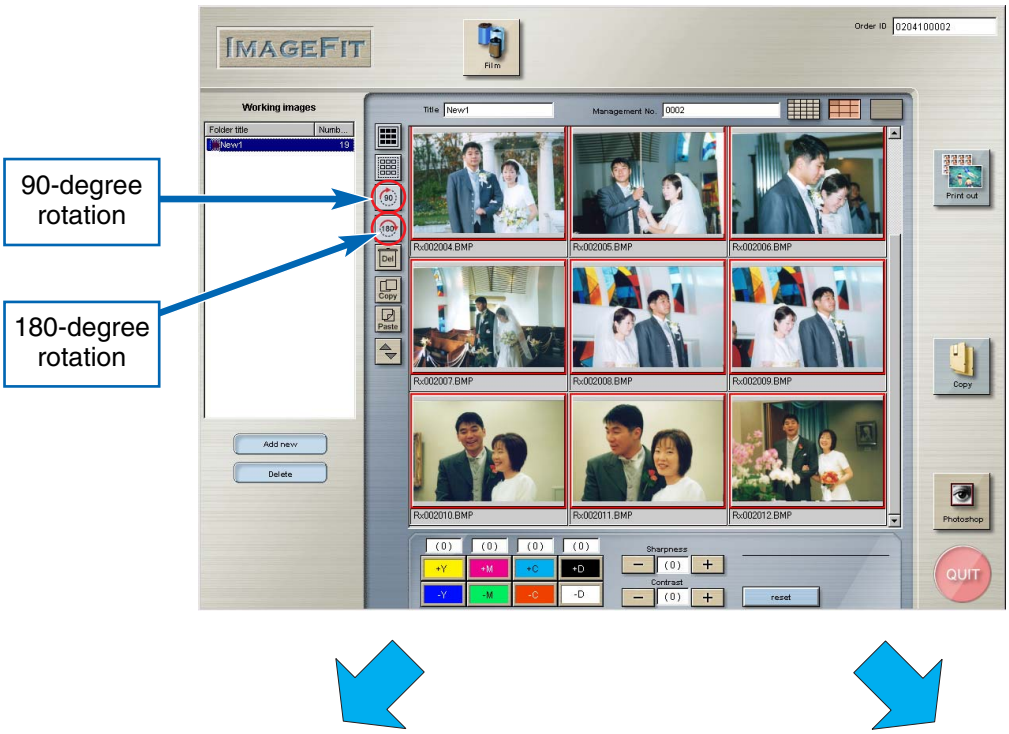
Double-clicking on an image to display an image in real size.

"Real size image display"

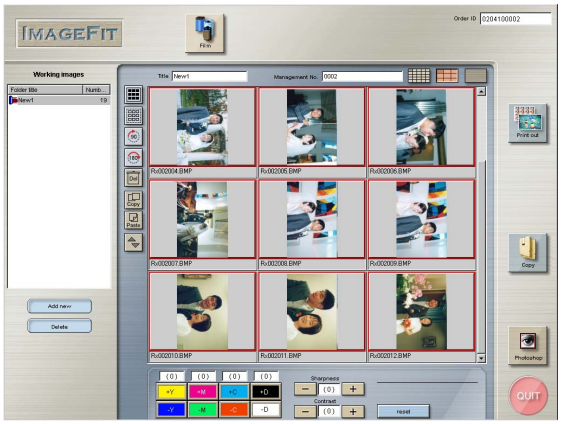
You can enlarge/reduce an image display here.

6.3 Rotating Images

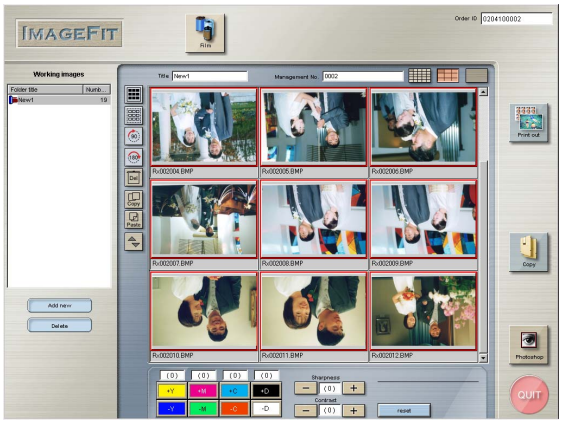
You can rotate the selected images (with red frame) by clicking “Rotate 90” or “Rotate 180.”



“Images rotated 90 degrees”



“Images rotated 180 degrees”



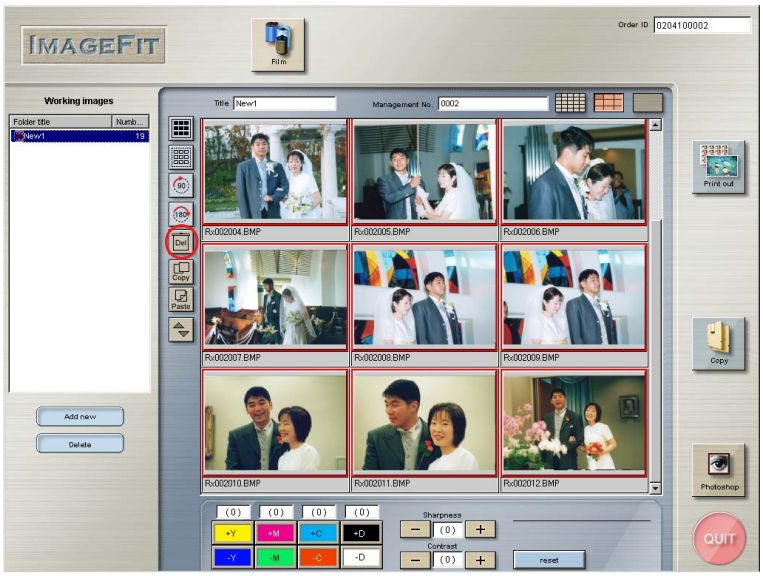
“Technique”

Move the pointer to an image and right-click to display a pull-down menu from which “Rotate 90” or “Rotate 180” can be selected.

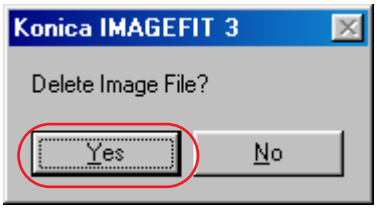
6.4 Deleting Images

You can delete or copy images that are displayed on the Viewer Screen.

(1) Select an image and click the “Delete” button.



(2) The following confirmation message will appear. Click “Yes” to delete the image.



“Technique”

Move the pointer to an image and right-click to display a pull-down menu from which “Delete” can be selected.

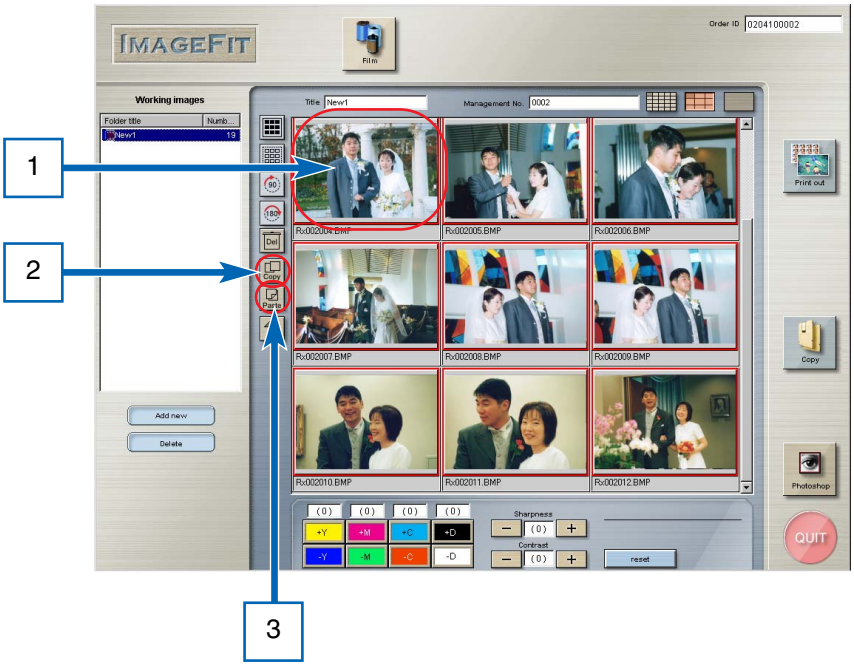
6.5 Copying Images

You can copy images on the Viewer Screen.

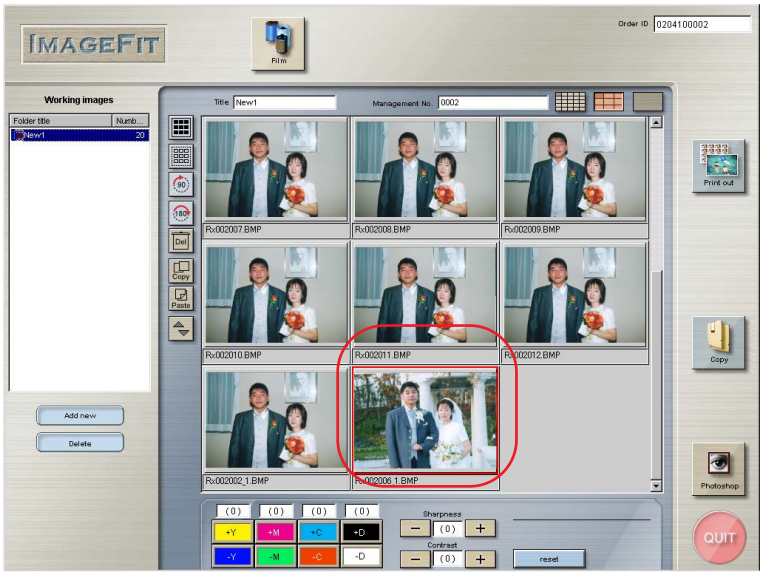
(1) Select an image and click the “Copy”

button and then click the “Paste”

button.



(2) The image will be copies after the last frame.



“POINT”

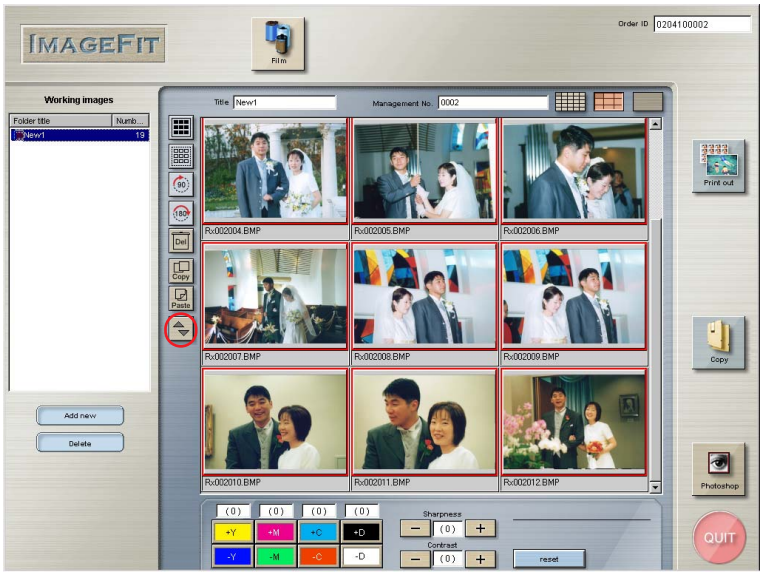
Images that are copied inside the same folder will be named automatically.

Names will not be changed if the images are not copied inside the same folder.

6.6 Rearranging the order of Images

You can rearrange the order of images that are displayed on the Viewer Screen.

(1) Click the “Rearrange order” button.



(2) The order of the images will be reversed.

“Technique”

Frames can be sorted on a frame basis by using drag and drop.

7. Adjusting Scanned Image Quality

This application can use color correction, density correction, sharpness, and contrast in terms of image adjustment.

7.1 Performing color adjustment and density adjustment

Select an image on the Viewer Screen and adjust then by the Color Management Keys (+Y, -Y, +M, -M, +C, -C, +D, -D) will result in the following changes. When an identical type of correction is made on two or more frames, images (enclosed with red line) should be selected by clicking with the “Shift” key or the “Ctrl” key.

“Explanation of buttons”

Button name	Function
+Y/-Y button	Changes the yellow balance by ±1. *1
+M/-M button	Changes the magenta balance by ±1. *1
+C/-C button	Changes the cyan balance by ±1. *1
+D/-D button	Changes the density by ±1. *1
Reset level	Returns correction of color and density to zero.

*1: Color balance and density balance change by 10% and 15%, respectively, each time the button is clicked. Refer to “12. Other Setups” to change the setup.

7.2 Adjusting Sharpness and Contrast

Can adjust sharpness and contrast for the selected image.

“Sharpness”: Change the sharpness value by ±5 step with the “-/+” button.
“Contrast”: Change the contrast value by ±10 step with the “-/+” button.
“reset level”: Returns the values for color, density, sharpness and contrast key to default (zero).

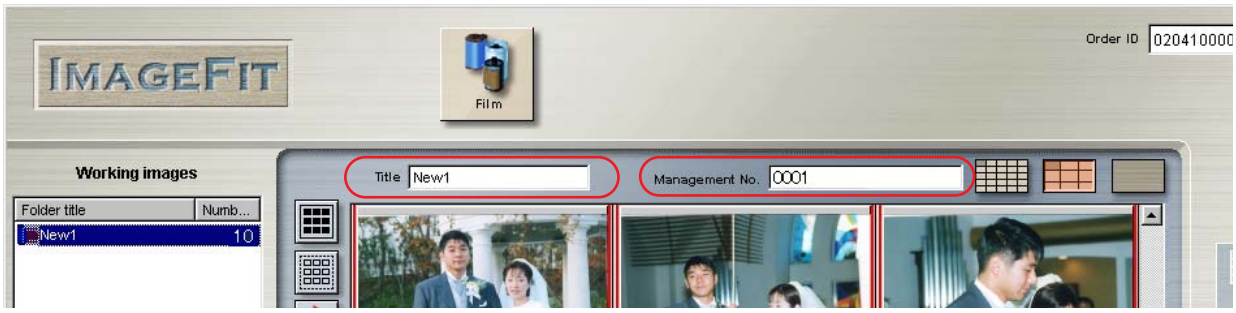
8. Managing the Scanned Images

Images once scanned in IMAGEFIT 3 are stored in a certain hard disk and displayed on a folder basis at “Working images”.
The images are given title or management number for each folder.

Caution: If a check mark is made in the menu, “File is automatically erased after saving” of the “Saved in Media”, the image is automatically erased.

8.1 Description of Work Folders

Scanned images are stored inside the folders and managed according to their title/management number. For instance, the folders that are selected below has 10 images under the title of “New1” and the management number of these images is 0001.

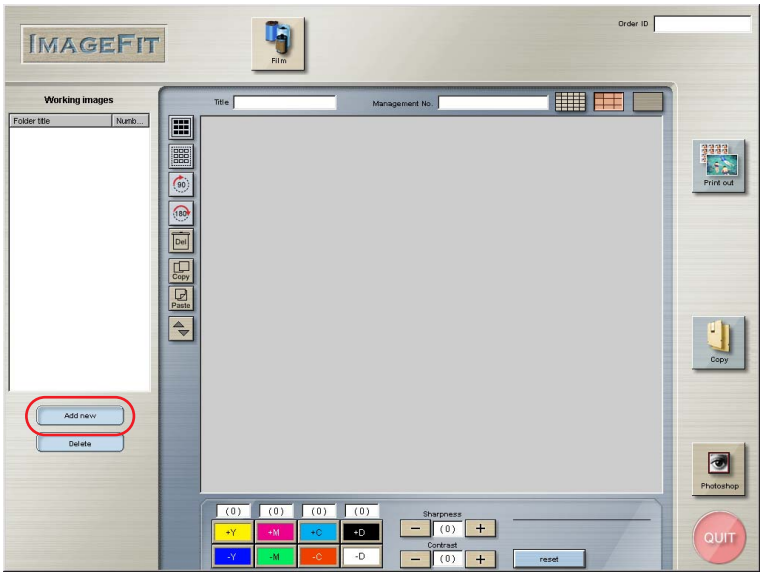


Title.....Up to 256 characters can be input. A title “NewXX” will be given if no input is made.

Management No.....Default setting creates the number in the order of receipts for the day. Can also be input up to 20 alphabets or numbers at will.

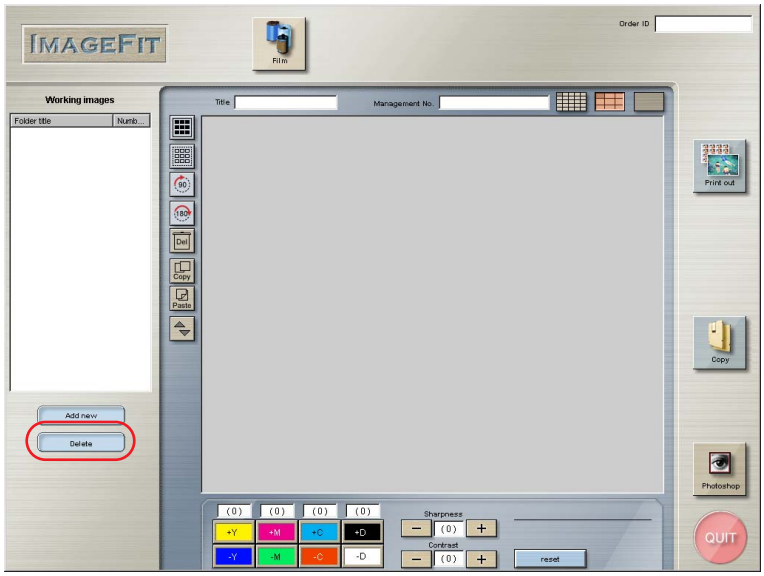
8.2 Adding a New Folder

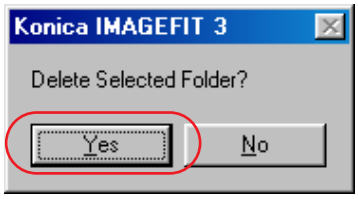
Click the “Add new” button to create a new folder in “Working images”. The default name given to a folder that has been created is “ New...”. This folder does not contain any image. It is used in gathering images reproduced from two or more folders and also can scan a new image.



8.3 Deleting a Folder

Click the “Delete” button to delete all images contained in a folder. Note that the files cannot be recovered after clicking “Yes” when prompted for confirmation.





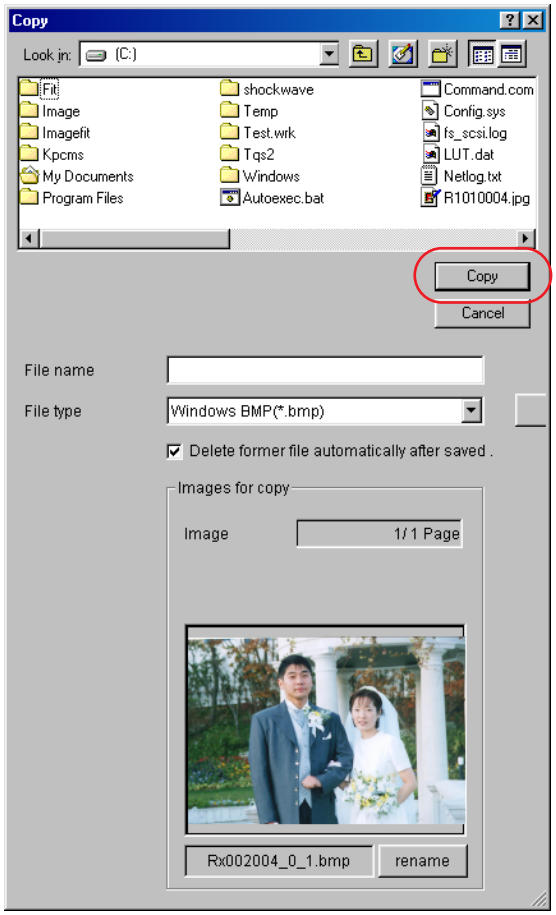
9. Saving Scanned Image in Media

Click the “Copy” button to save the selected images in the designated external media. e.g. MO, FD, PC cards, etc... If the drive is connected.

9.1 Basic Operating Procedures

(1) Select the image in the Viewer Screen and click the “Copy” button.

(2) The following screen will appear. Select the folder and click the “Copy” button. At this time, a file name is saved as file name displayed on the Viewer Screen.



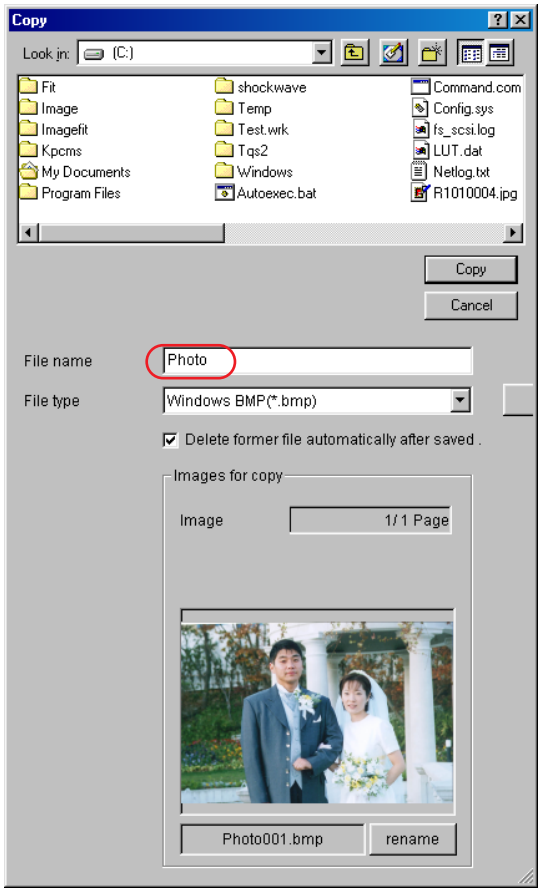
Caution: If a check mark is given in the menu, “Former file is automatically erased after saving” the images are all erased after saving.

9.2 Changing File Types

File types to be stored can be changed in the manner described below.
Select from the “File Type” list box to change the file type.
(1) Windows BMP format .....Converts and saves in Windows bitmap file.
(2) JPEG format .....Compresses and save an image in JPEG format.
Compression rate can be changed by clicking the “Setup” button.
(3) TIFF format.....Saves in 8 bit, RGB and non-compressed TIFF format.
(4) PSD format.....Saves in PSD format which is a Adobe Photoshop 3.0 file format.
(5) PICT format.....Saves in PICT file format for Macintosh.

9.3 Changing File Names in Batch

Click the box for “File Name” as shown below and input any file name. A 3 digit number corresponding to the number of files will be entered after “File Name” to change the file name.

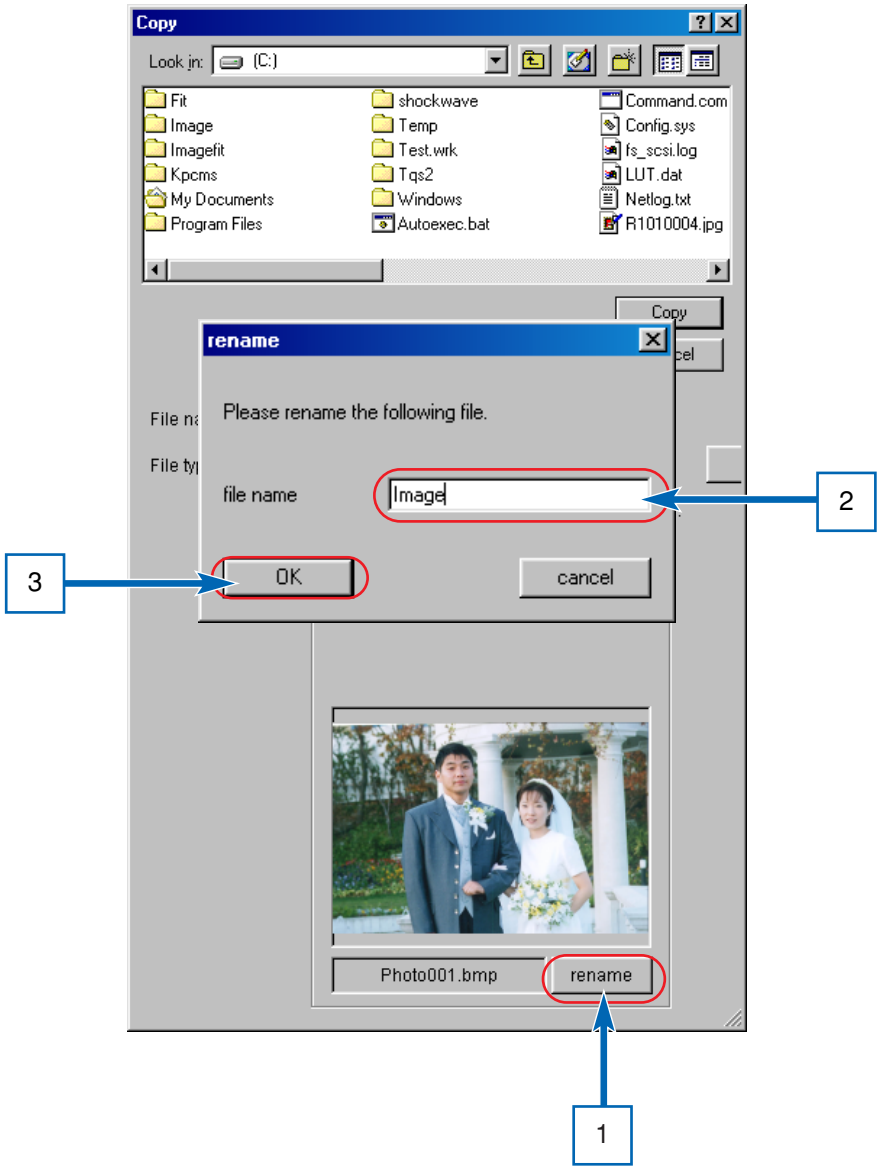


For instance, input “Photo” at “File Name” will automatically enter “photo001” through “photo010” and save 10 files. The limit for file name in this case is 256 characters.

9.4 Changing Individual File Names

Click the “rename” button shown below. The file names of images that are displayed on this screen can be changed individually. Click the “OK” button after the change has been made.

“Warning”
Note that if a file name changed in bulk after it was changed individually, the priority will be given to the latter.



10. Printing the Scanned Image

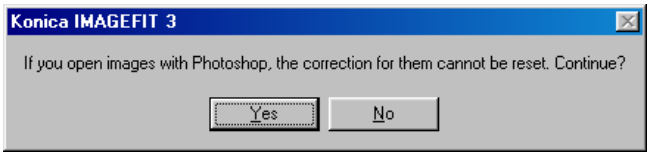
Follow the operation method described below for print output provided that a printer has been set up on your computer and printer driver has been installed properly. However, you will have to adjust the image size on your own as it will differ depending on how the printer driver has been set up.

11. Remaking Image with Photoshop

You can use Photoshop to process image in this application.
If Photoshop versions 5.0 to 6.0 are installed into the C drive, IMAGEFIT 3 recognizes images automatically. Image processing for versions other than 5.0 and 6.0 is set according to the message, “Set pass of starting Photoshop”.

(1) Confirm that the Photoshop button is active. Photoshop will not start if the color of the button is gray. In that case, install Photoshop.
(2) Then select an image on the Viewer Screen and click the “Photoshop” button.

(3) The following message is displayed always at the same time as clicking the button.



The above message means that “The image under color management will be stored on the hard disk after being put through image processing and therefore cannot be changed.”
Clicking “Yes” will start Photoshop. The image selected on the Viewer Screen can be edited in Photoshop.

“Note”
For instance, even if the color correction value before going to Photoshop is (4, 2, 0, 0), the value after returning from Photoshop will be (0, 0, 0, 0).

(4) Edit the image after the screen goes to Photoshop screen. “Overwrite” all images after the editing image is completed. Quit Photoshop after this overwriting.

“Note”

If there are some layers first, after unifying layers, overwrite the tile. The images will not be changed after returning to the Viewer Screen when they are saved at a different location.

(5) It takes some time to quit Photoshop.
Return to the Viewer Screen after quitting Photoshop.

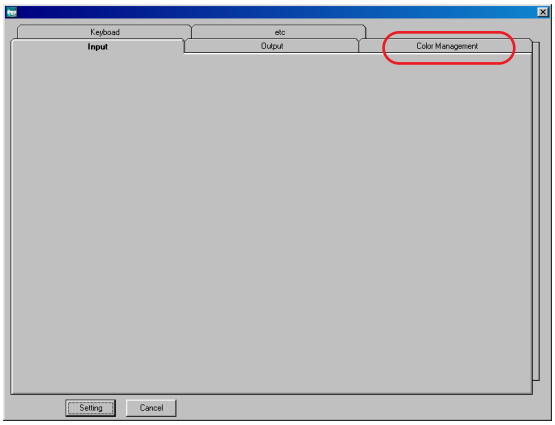
12. Other Setups

The following setups can be changed as required.

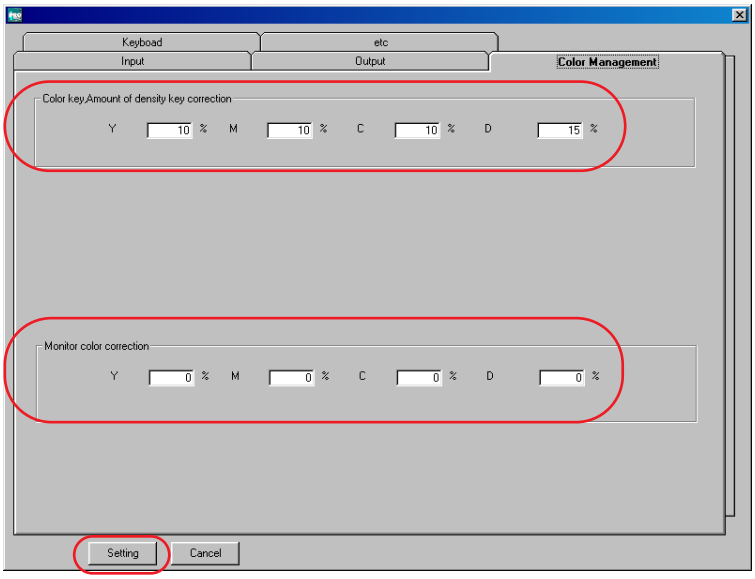
- Changing color compensation rate in viewer screen
- Adjusting monitor color tone in viewer screen
- Changing hard disk check capacity setup
- Changing Photoshop startup path

12.1 Changing color compensation rate/monitor color adjustment in viewer screen

(1) Press Ctrl + Shift + F2 on the keyboard on Viewer Screen (Main Screen). Click the “Color Management Related” tab when the following screen appears.



(2) The following screen appears when the following screen is displayed.



- Color key, Amount of density key step Color key step is specified at 10%, and density key step is specified at 15% by default. Change the values to increase or decrease the amount of step.

- Monitor color correction This section adjusts color balance on monitor display. “0” is specified for all colors by default. Change the values as required. However, correction on this screen is effective only on monitor screen. Note that print images and image data themselves are not modified here.

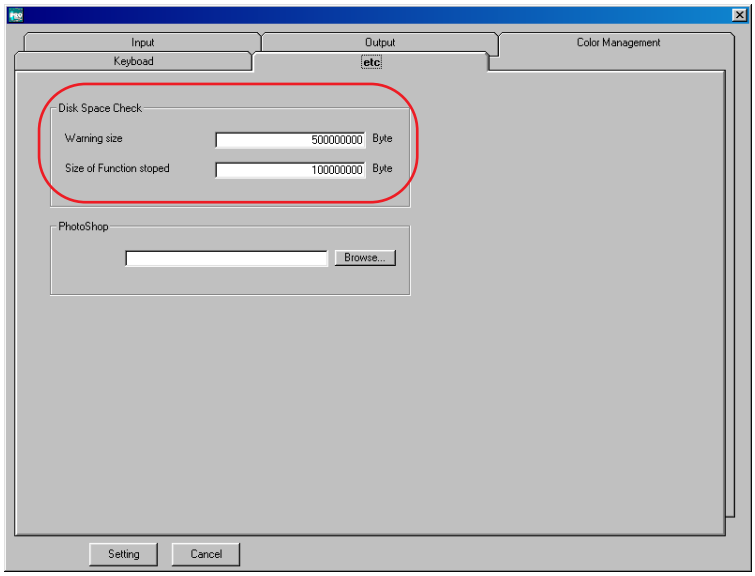
(3) Click the “Set Up” button once the input is completed.

(4) Restart this application.

12.2 Checking HDD space

This application checks free space on hard disk drive for each click on a button related to image-data input. By default, the system issues a message suggesting expansion of free space when free space becomes less 500MB or less. In addition, the image-input function is disabled if free disk space becomes less than 100MB. To change the values for disk space checking, modify the values on the screen shown below.

(1) Press Ctrl + Shift + F2 on the keyboard on Viewer Screen (Main Screen). Click the “Others” tab when the following screen appears.



(2) Change the following items as required.
Alarm capacity during image scan .....100000000 (10MB) to 99999999999 (9.9GB) can be scan.
Alarm capacity during scan .....1 (1 byte) to 100000000 (10MB) can be scan.

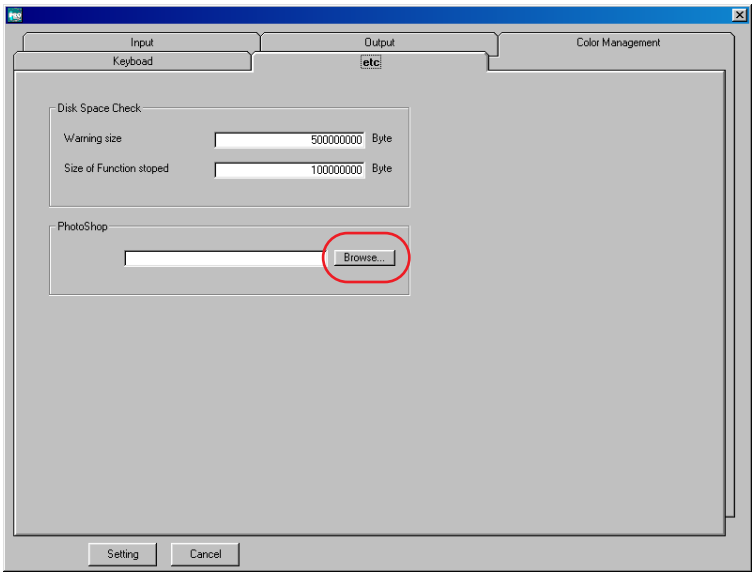
(3) Click the “Set Up” button once the input is completed.

(4) Restart this application.

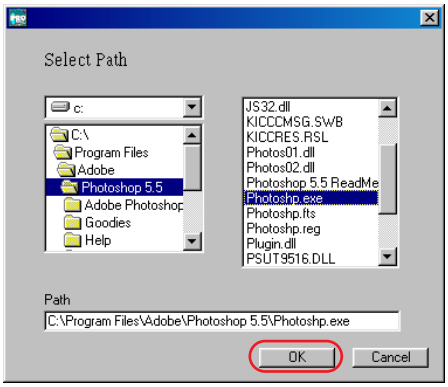
12.3 Changing the Photoshop Startup Path

Photoshop Version 5.0 to 6.0 will detect the path automatically if it is installed in the C Drive.
Set up the startup path according to the following procedure if you are using other versions.

(1) Press Ctrl + Shift + F2 on the keyboard on Viewer Screen (Main Screen). Click the “Others” tab when the following screen appears.



(2) Click the “Path Select” button at the Photoshop path shown above. The following screen will appear. Select the main Photoshop program (usually the file with “exe.” extension.) and click the “Finalize” button.



(3) Click the “Set Up” button when input is completed.

(4) Restart the application.

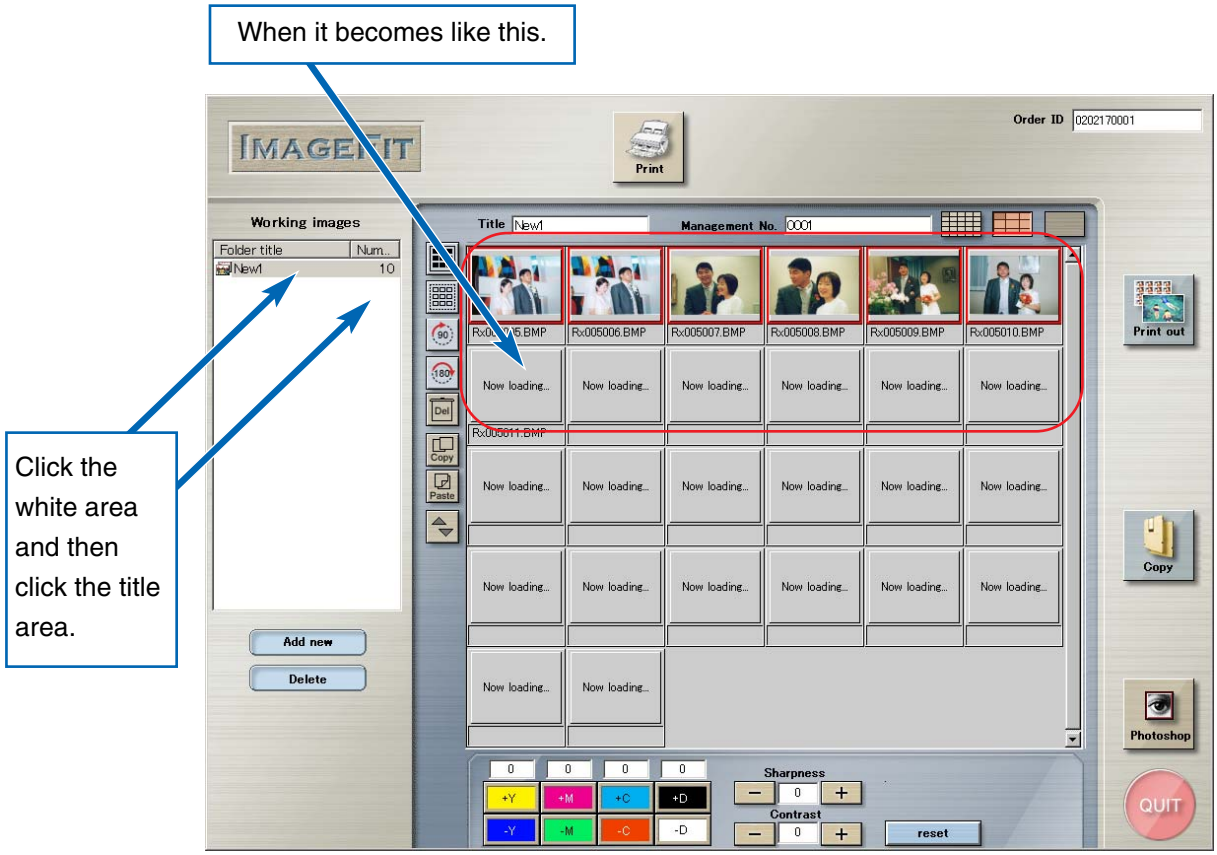
13. Troubleshooting

This section will explain troubleshooting.

(A) What to do when “Now loading...” is displayed on the screen.

The following condition appears after rapidly clicking the “Display switch” button or the “Input related” button while the screen is being displayed. One of the following operations can be used for re-display in such case.

- “Working images” Click the list frame (white area) once and the click the folder title once.
- Click other folders once and go back.
- Click “Add new” button and go back.

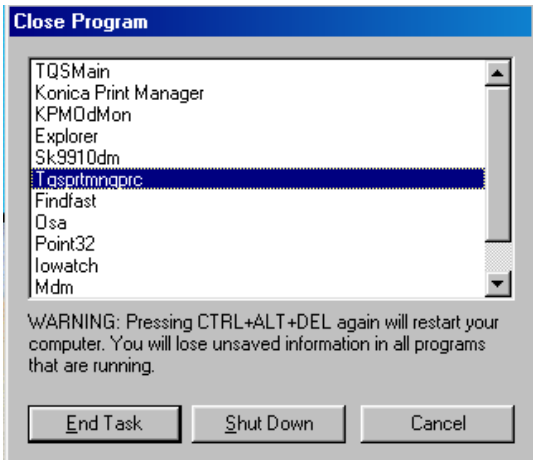


(B) What to do when the application experiences forced termination

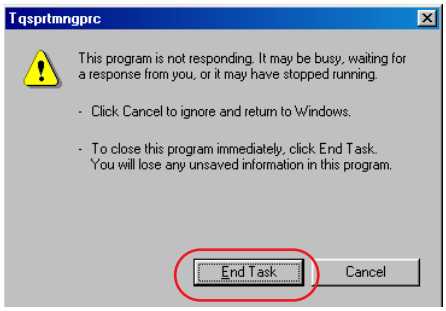
A method for dealing with forced termination of the application for one reason or another. Restart according to the following procedure.

1) Press “Close” to erase the message when the following message appears. Move on to 2) if the message does not close after repeated attempts and shut down the PC.

2) Press “Alt” and “Del” keys at the some time, while pressing down the “Ctrl” key. The following screen will appear. Click the program “Tqsprtmngprc” and click the “Quit” button.



3) The following message will appear after waiting for some time. Click the “Quit” button.


Tqsprtmngprc
This program is not responding. It may be busy, waiting for a response from you, or it may have stopped running.
- Click Cancel to ignore and return to Windows.
- To close this program immediately, click End Task. You will lose any unsaved information in this program.
End Task
Cancel

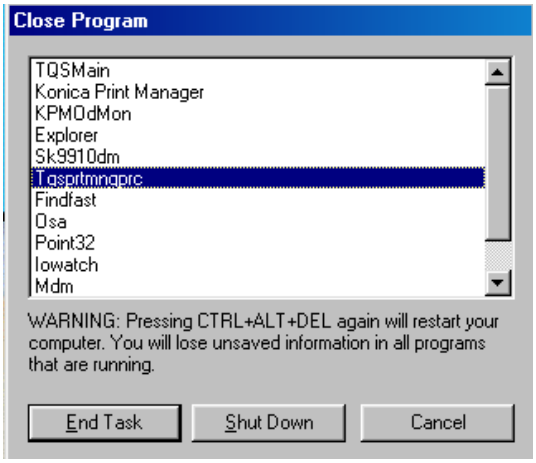
4) Application has been shut down properly. Restart the application.

“Note”
Delete all images that were being used when the application experinces forced termination.
Normal printing and stored may not be possible.

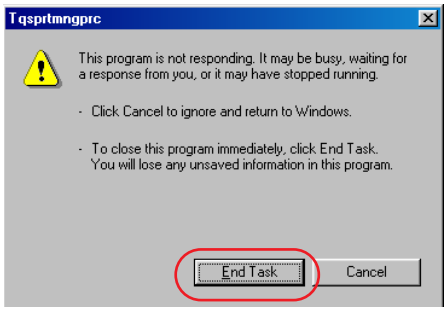
(C) What to do when the application freezes

A method for dealing with freezing of the application caused by some reason or another. Restart according to the following procedure.

1) Press “Alt” and “Del” keys at the some time, while pressing down the “Ctrl” key. The following screen will appear. Click the program “TQSMain” and “Tqsprtmngprc” and click the “Quit” button. “TQSMain no response” may be used in some cases.



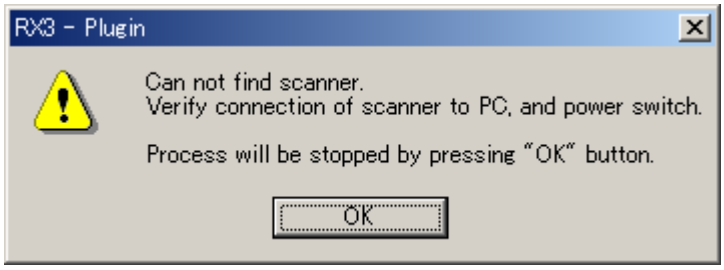
2) The following message will appear after waiting for some time. Click the “Quit” button.


Tqsprtmngprc
This program is not responding. It may be busy, waiting for a response from you, or it may have stopped running.
- Click Cancel to ignore and return to Windows.
- To close this program immediately, click End Task. You will lose any unsaved information in this program.
End Task
Cancel

3) Application has been shut down properly. Restart the application.

(D) When images cannot be detected by RX-3 scanner

The following error message may appear when the “Pre scan” button is pressed. As the cause may differ for the two cases described below, it is necessary to make another attempt after taking the corresponding measures.


RX3 - Plugin
Can not find scanner.
Verify connection of scanner to PC, and power switch.
Process will be stopped by pressing "OK" button.
OK

(1) When PC (BIOS) cannot recognize RX-3

- The power for RX-3 may not be turned on. Turn on the power and restart the computer.
- SCSI cable may have come off or may be disconnected. Plug the cable in properly or replace the cable.
- SCSI board may have become loose or may be malfunction. Replace the SCSI board in such event.
- SCSI cable may be too long or may not be terminated. Shorten the cable length (1m or less) or turn on the auto termination properly.
- May be unable to recognize because of no compatibility with other SCSI equipment. Remove other connected equipment and connect only the RX-3.
- The total length of the SCSI cable may be over 3m. Add another SCSI board in the PC and set the total length of SCSI cable less than 3m.

(2) When an error message appears even though it is recognized by PC (BIOS)

- SCSI board may not be compatible with RX-3. Check “1.1 Operating Environment” again and make sure that the SCSI board is compatible.
- The SCSI board driver may not be installed properly. Obtain the latest driver and install the driver properly.

14. Limitations

Following are the limitations of this application.

Function	Item	Limitations
Viewer screen	Accepted number of orders per day Output number of orders per day Scanned number of images per folder Capacity of one image Input number of title columns Control number	9999 (*1) 999 (*1) Up to 300 files (as many as the number scanned until a message is indicated) (*2) Up to 100 MB (converted for BMP) 256 alphanumeric characters 20 characters in alphanumeric only
From print	Number of images per one scanning Scanned number of orders per day Number of prints per one setting	999 999 (*1) 20
Media storage	Free area in harddisk	A warning message is set off if below 1GB. A planned shutdown if below 100 MB
Photoshop link	Versions that can recognize image automatically	Adobe Photoshop 5.0 to 6.0 (*2)

*1: If exceeding these numbers, order names may be repeated.

*2: Photoshop beyond the above version, Light Edition, or Element should be set individually by customer.

15. Maintenance and Inspection

- For details on how to clean the equipment and replace consumables, refer to the RX-3 Instruction Manual.

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